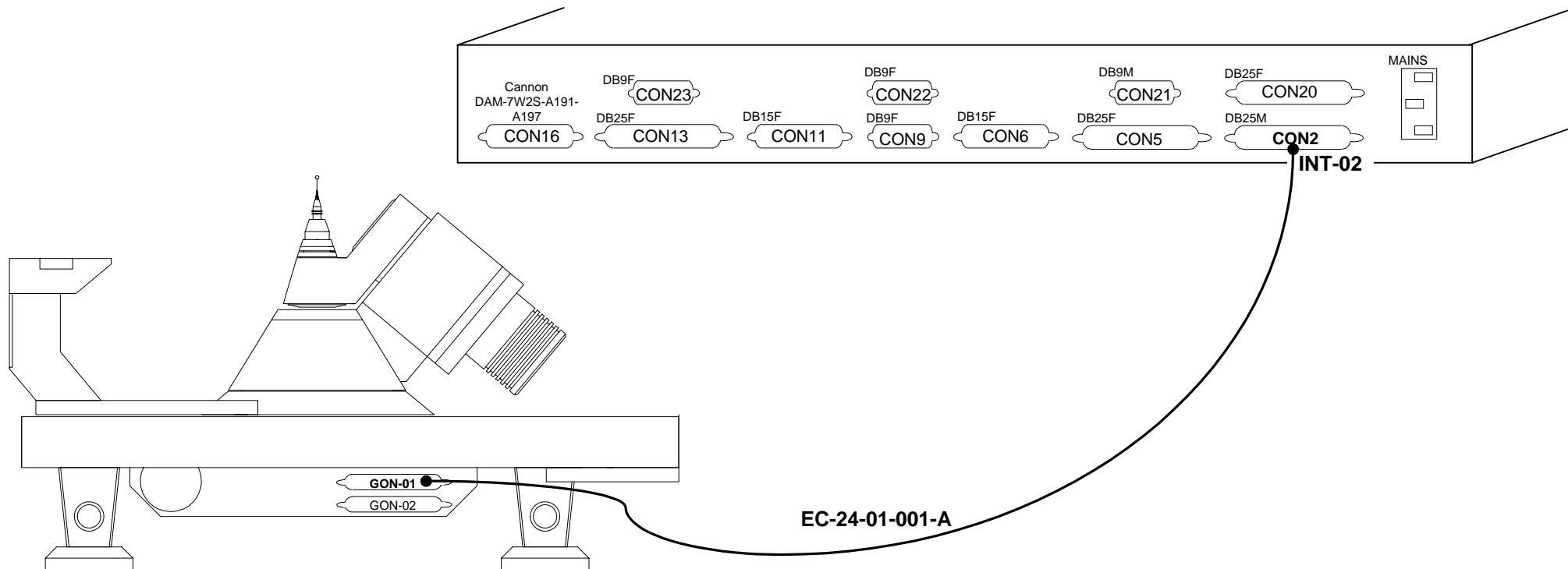

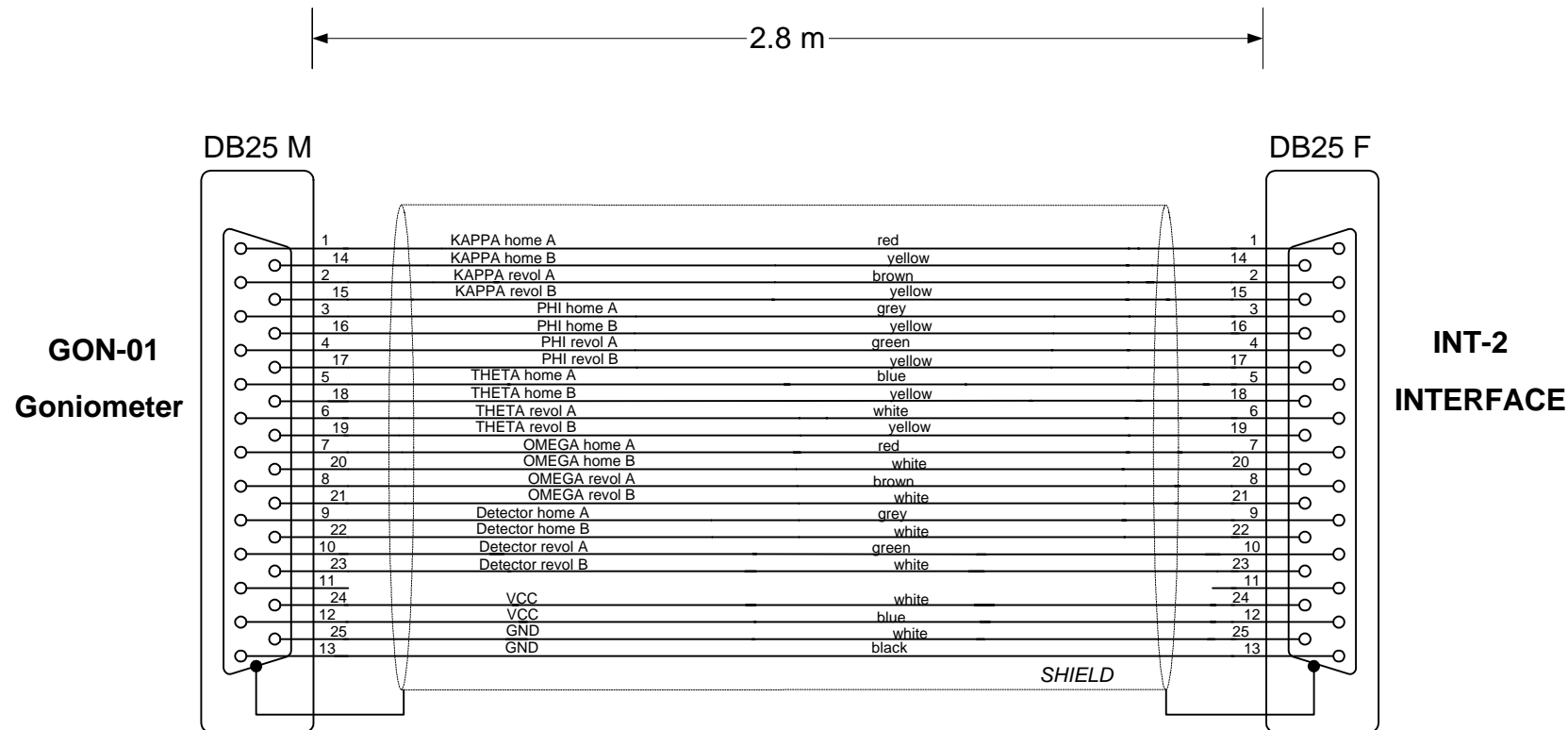
	TITLE: <b>Xcalibur 2 System</b>	
	Block diagram	
DRG NO. <b>EC-00-00-000-B</b>	FILE: \workgroups\electronics\Xcalibur\Ele ctrical Documentation v200\	REV. <b>A</b>
DRAWN BY: <b>R. S.</b>	DATE: Nov. 2002	
APPROVED BY:	SHEET <b>1 of 1</b>	


A. No.				
Appr				
Date				

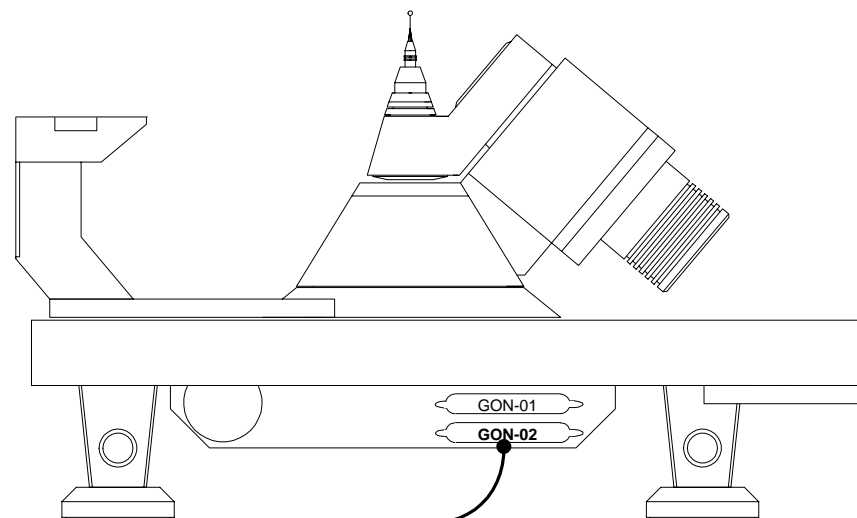


PNS code: <b>EC-24-01-001-A</b>		Length: <b>2.8m</b>	Drg no.: <b>EC-24-01-001-A</b>
Description: <b>Encoders communication</b>			
Cable: <b>2 x 12 x 0.25 shielded</b>	Connector 1: <b>INT-02</b>		Connector 2: <b>GON-01</b>
	PNS code: <b>EA-06-00-006-A</b>		PNS code: <b>EA-06-00-005-A</b>
PNS code: <b>EA-05-00-014-A</b>	Type: <b>DB25 female</b>		Type: <b>DB25 male</b>
Type: <b>LiYCY2x12x0.25 shielded</b>	Location: <b>Interface – rear panel</b>		Location: <b>Goniometer</b>

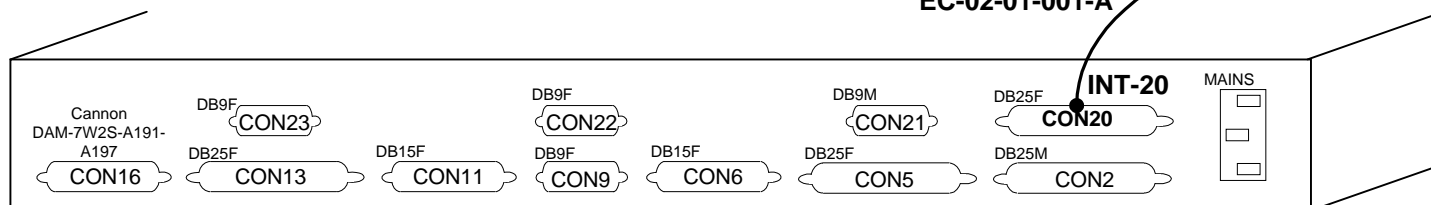
					 DRG NO. <b>EC-24-01-001-A</b>	TITLE: <b>Xcalibur 2</b> <b>Encoders cable</b>		
A. No.								
Appr					DRAWN BY: <b>R. S.</b>	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. <b>A</b>
Date					APPROVED BY:			
						DATE: <b>06/07/2001</b>	SHEET	<b>1 of 2</b>




					<div> <div>  <div> <div>oxford</div> <div>diffraction</div> </div> </div> <div> <div>DRG NO.</div> <div>EC-24-01-001-A</div> </div> </div>	<div> <div>TITLE:</div> <div>Xcalibur 2 Encoders cable</div> </div>	
A. No.						<div> <div>FILE:</div> <div>\\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div> </div>	<div> <div>REV.</div> <div>B</div> </div>
Appr					<div> <div>DRAWN BY:</div> <div>R. S.</div> </div>	<div> <div>DATE:</div> <div>04/07/2001</div> </div>	
Date					<div> <div>APPROVED BY:</div> </div>	<div> <div>SHEET</div> <div>2 of 2</div> </div>	

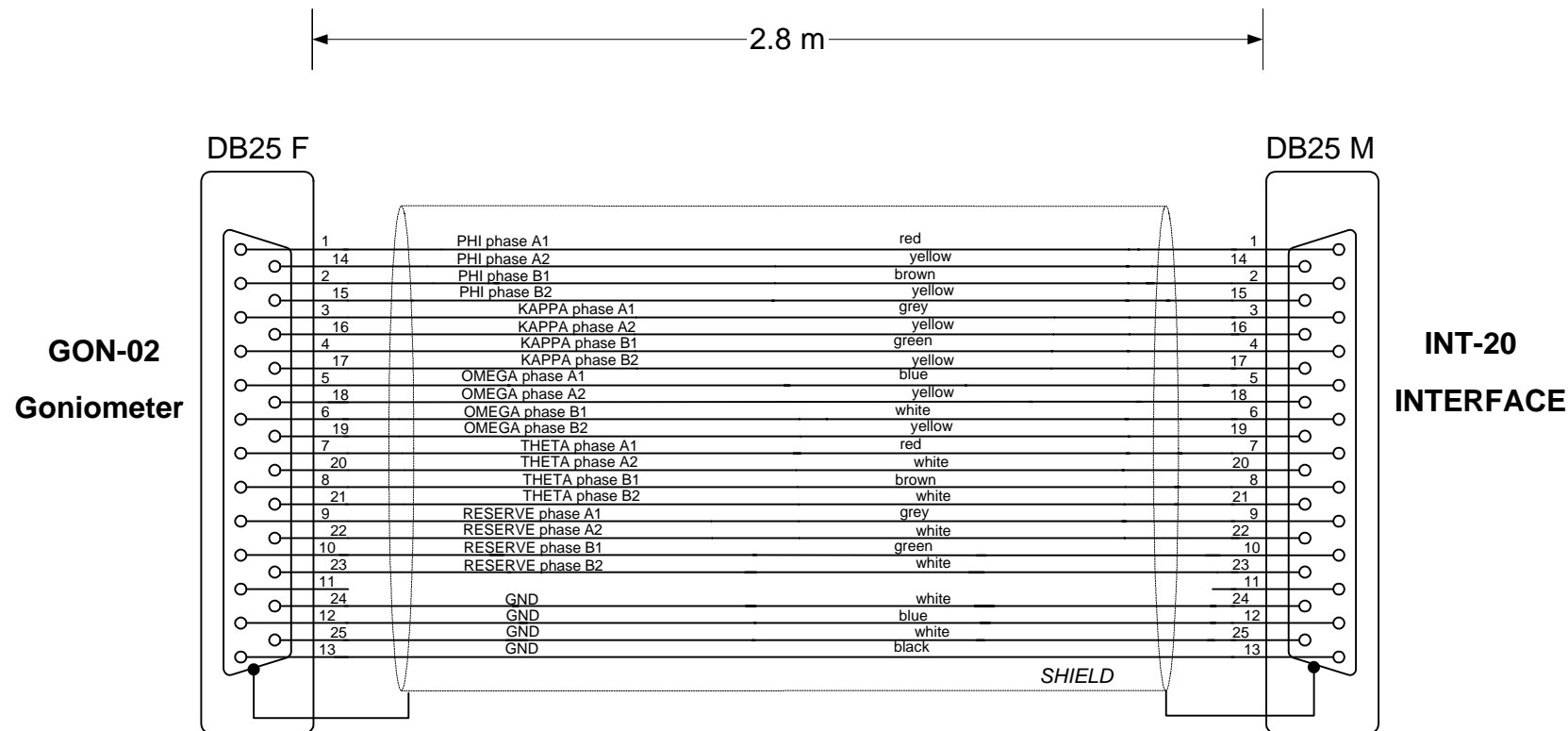



EC-02-01-001-A

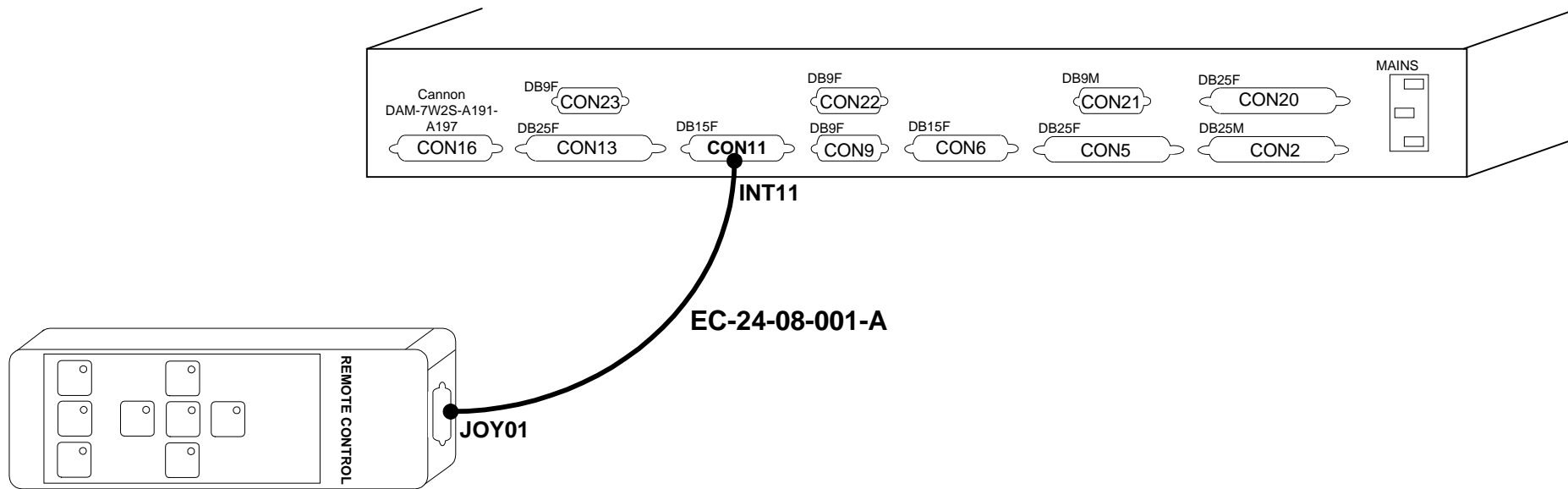


PNS code: <b>EC-02-01-001-A</b>		Length: <b>2.8m</b>	Drg no.: <b>EC-02-01-001-A</b>
Description: <b>Stepping motor supply</b>			
Cable: <b>2 x 12 x 0.25 mm2 shielded</b>		Connector 1: <b>INT-20</b>	Connector 2: <b>GON-02</b>
		PNS code: <b>EA-06-00-005-A</b>	PNS code: <b>EA-06-00-006-A</b>
PNS code: <b>EA-05-00-014-A</b>		Type: <b>DB25 male</b>	Type: <b>DB25 female</b>
Type: <b>LiYCY2x12x0.25 shielded</b>		Location: <b>Interface – rear panel</b>	Location: <b>Goniometer</b>


					<div><div>oxford diffraction</div><div>DRG NO.</div><div>EC-02-01-001-A</div><div>DRAWN BY: R. S.</div><div>APPROVED BY:</div></div>	<div>TITLE:</div> <div>Xcalibur 2</div> <div>Stepping motors cable</div> <div><div>FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div><div>REV. A</div></div> <div><div>DATE: 06/07/2001</div><div>SHEET 1 of 2</div></div>		
A. No.								
Appr								
Date								

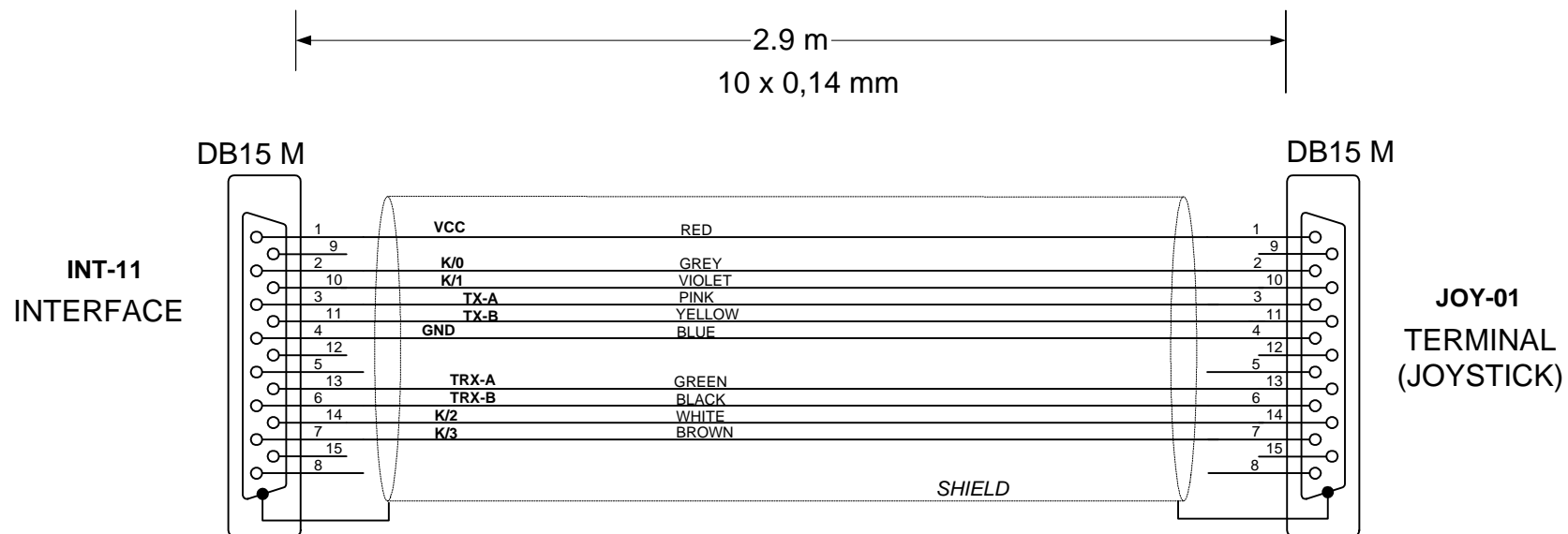


					 <b>EC-02-01-001-A</b>	<b>TITLE:</b> <b>Xcalibur 2 Stepping motors cable</b>	
<b>A. No.</b>						<b>FILE:</b> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	<b>REV.</b> <b>B</b>
<b>Appr</b>					<b>DRAWN BY:</b> R. S.		
<b>Date</b>					<b>APPROVED BY:</b>	<b>DATE:</b> 04/07/2001	<b>SHEET</b> 2 of 2



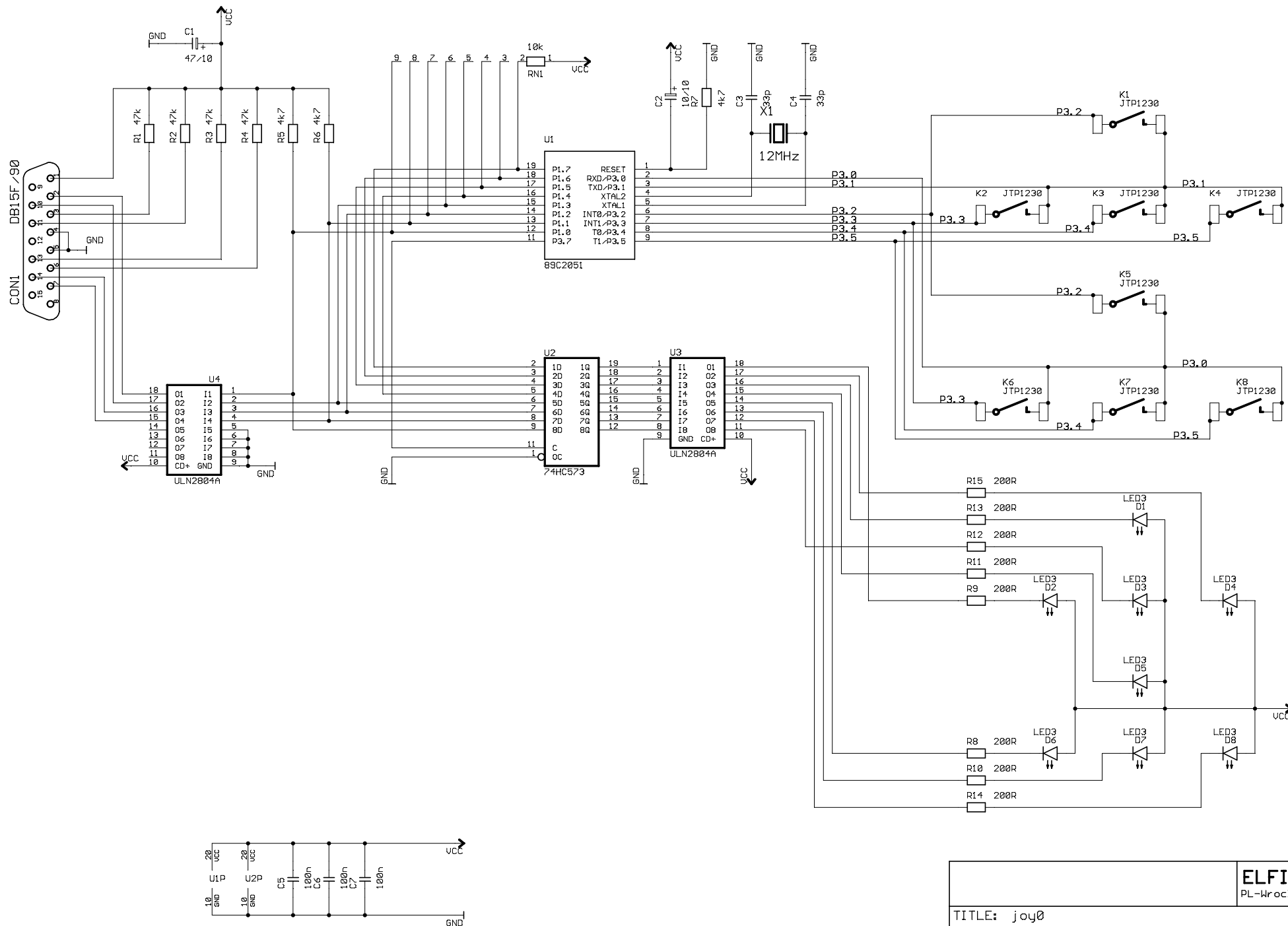
PNS code: <b>EC-24-08-001-A</b>		Length: <b>2.9m</b>	Drg no.: <b>EC-24-08-001-A</b>
Description:			
Cable: <b>10 x 0.14 mm2 shielded</b>	Connector 1: <b>INT-11</b>		Connector 2: <b>JOY-01</b>
	PNS code: <b>EA-06-00-003-A</b>		PNS code: <b>EA-06-00-003-A</b>
PNS code: <b>EA-05-00-004-A</b>	Type: <b>DB15 male</b>		Type: <b>DB15 male</b>
Type: <b>LiYCY10x0.14 shielded</b>	Location: <b>Interface – rear panel</b>		Location: <b>Terminal</b>

					 DRG NO. <b>EC-24-08-001-A</b>	TITLE: <b>Xcalibur 2</b> <b>Remote control cable</b>	
A. No.							
Appr					DRAWN BY: <b>R. S.</b>	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. <b>A</b>
Date					APPROVED BY:		
						DATE: <b>09/07/2001</b>	SHEET <b>1 of 2</b>



	<b>TITLE:</b> Xcalibur 2	
	<b>Remote control cable</b>	
<b>DRG NO.</b> <b>EC-24-08-001-A</b>	<b>FILE:</b> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	<b>REV.</b> A
<b>DRAWN BY:</b> R. S.	<b>DATE:</b> 09/07/2001	<b>SHEET</b> 2 of 2
<b>APPROVED BY:</b>		

A. No.				
Appr				
Date				



ELFIN  
PL-Wrocłau

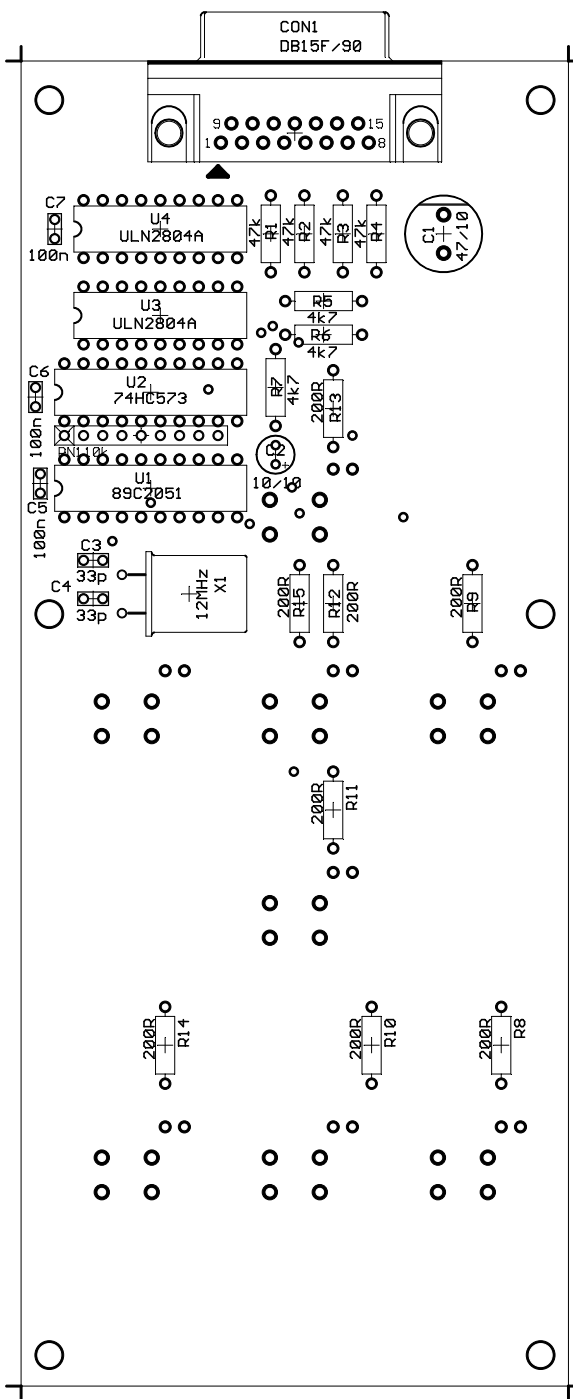
TITLE: joy0

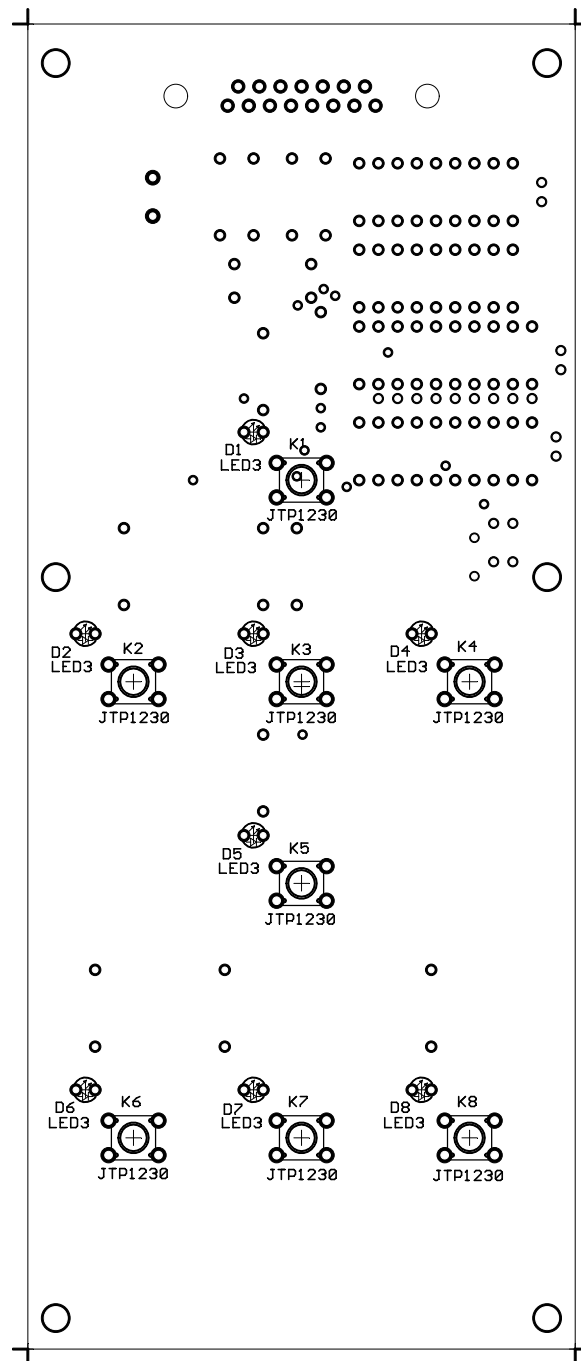
Document Number:

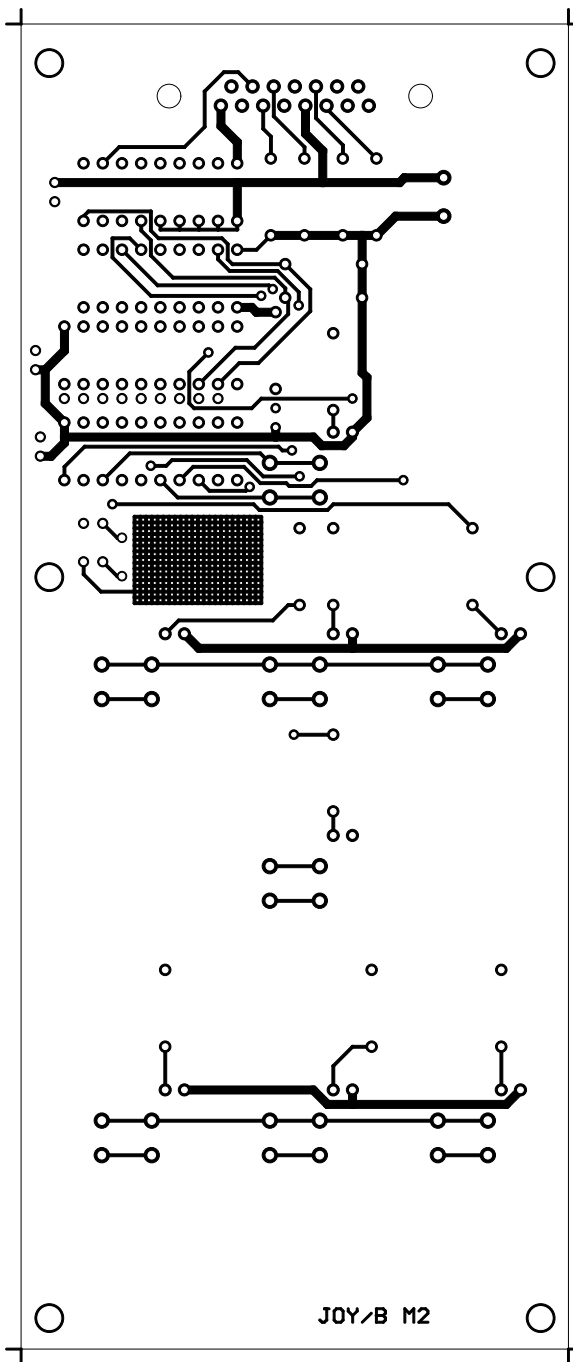
REV:  
B

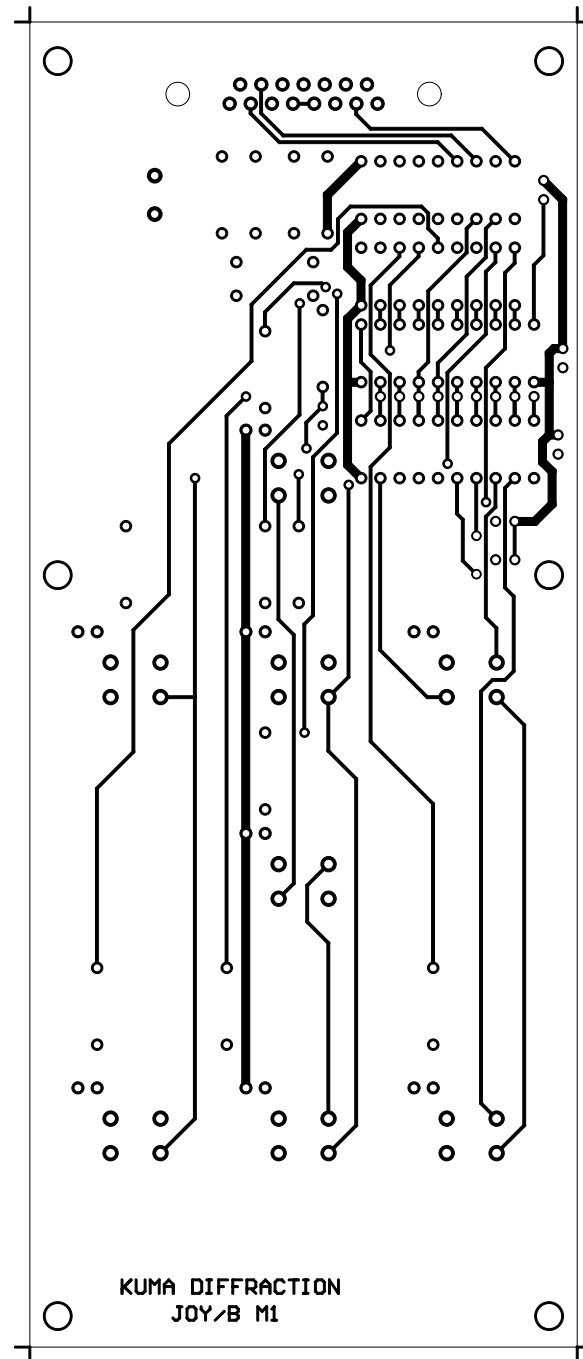
Date: 1999-01-07 15:55:50

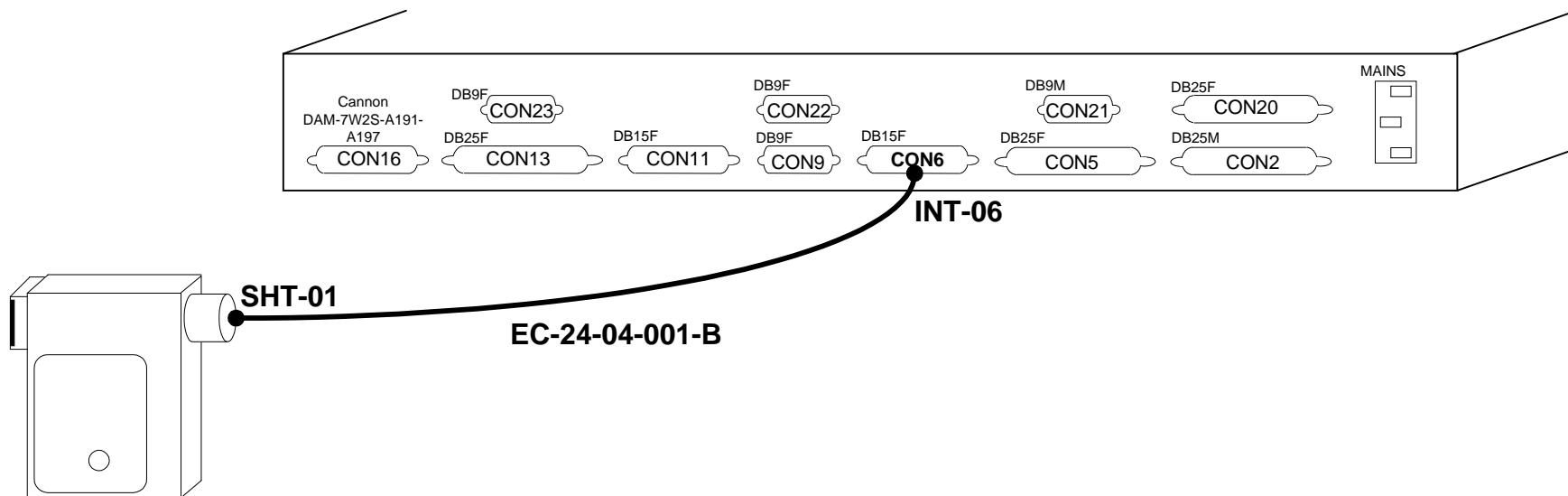
Sheet: 1/1






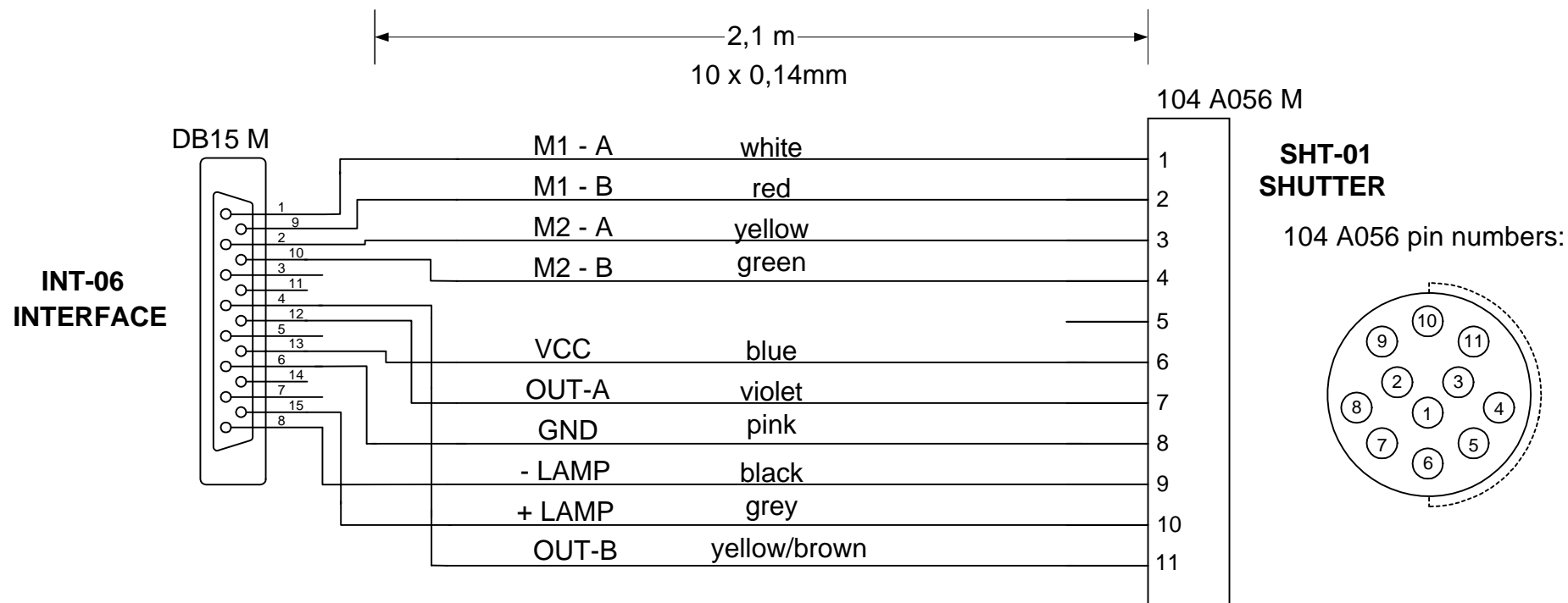







<i>PNS code:</i> <b>EC-24-04-001-B</b>		<i>Length:</i> <b>2,1m</b>	<i>Drg no.:</i> <b>EC-24-04-001-A</b>
<i>Description:</i> <b>Shutter connections</b>			
<i>Cable:</i> <b>10 x 0.14 mm2 shielded</b>	<i>Connector 1:</i> <b>INT-06</b>		<i>Connector 2:</i> <b>SHT-01</b>
	<i>PNS code:</i> <b>EA-06-00-003-A</b>		<i>PNS code:</i> <b>EA-06-00-028-A</b>
<i>PNS code:</i> <b>EA-05-00-004-A</b>	<i>Type:</i> <b>DB15 male</b>		<i>Type:</i> <b>104A056 Fischer</b>
<i>Type:</i> <b>LiYCY10x0.14 shielded</b>	<i>Location:</i> <b>Interface – rear panel</b>		<i>Location:</i> <b>Shutter</b>

					 TITLE: <b>Xcalibur 2</b> <b>Fast shutter cable</b>		
A. No.							
Appr					DRG NO. <b>EC-24-04-001-B</b>	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\ REV. <b>A</b>	SHEET <b>1 of 2</b>
Date					DRAWN BY: <b>R. S.</b>		
					APPROVED BY:	DATE: <b>16/01/2002</b>	



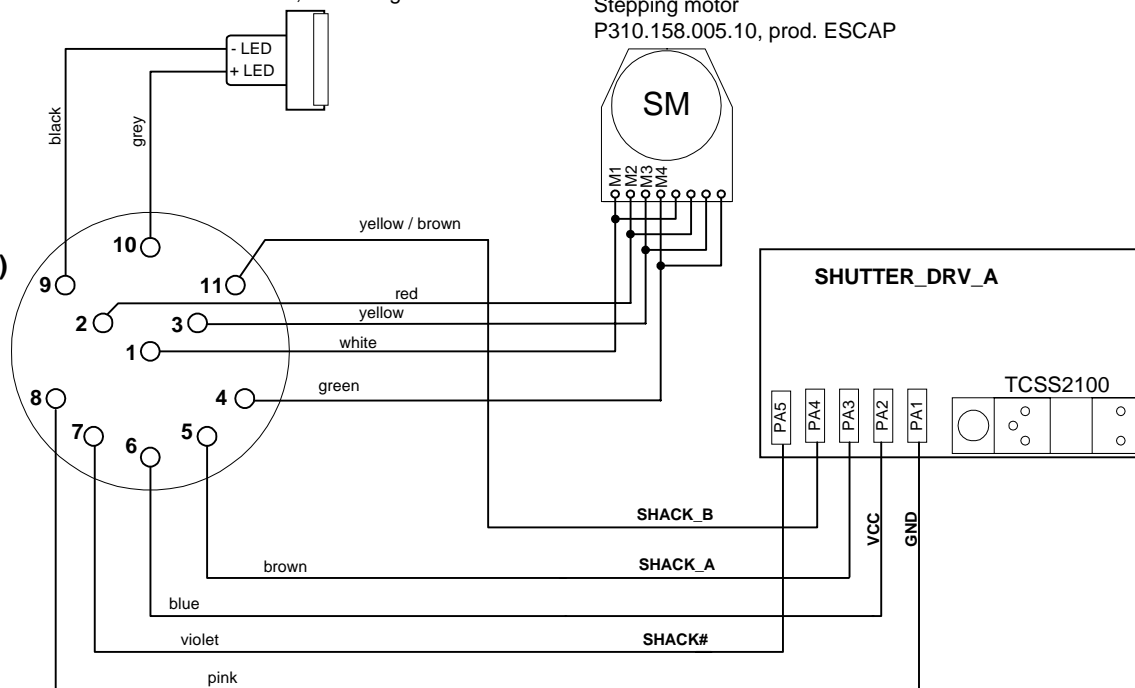
					 DRG NO. <b>EC-24-04-001-B</b>	TITLE: <b>Xcalibur 2</b> <b>Fast shutter cable</b>	
A. No.	B						
Appr					DRAWN BY: <b>R. S.</b>	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. <b>B</b>
Date	7/02/2002				APPROVED BY:	DATE: 16/01/2002	SHEET <b>2 of 2</b>

Pilot lamp 990-000-K0, prod. Swisstac  
 Bezel 18x24mm, nr katalog. 200-6000-00  
 Lens RED 18x24mm, nr katalog. 200-5120-00  
 MultiLED 12VDC RED, nr katalog. 390-6212-00


Stepping motor  
 P310.158.005.10, prod. ESCAP

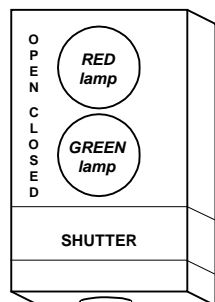
**FISCHER**  
**104 A056**  
 (female socket)

104A056 Pin no.	Description	Cable color
1	M1 stepping motor	White
2	M2 stepping motor	Red
3	M3 stepping motor	Yellow
4	M4 stepping motor	Green
5	SHACK_A	Brown
6	VCC (+5V)	Blue
7	SHACK# (TTL_OUT)	Violet
8	GND	Pink
9	LED -	Black
10	LED +	Grey
11	SHACK_B	Yellow/Brown

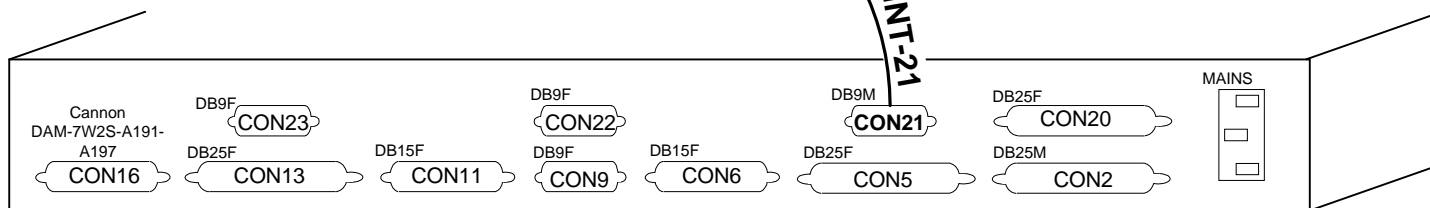


A. No.	A	B	C	
Appr				
Date	16/01/2002	5/03/2002	6/05/2002	


 DRG NO. <b>OD-1-06-30</b>	TITLE: <b>Xcalibur 2          ENHANCE          Shutter connections</b>	
	FILE: \\electronics\xcalibur\gonio68332\	REV. <b>C</b>
	APPROVED BY:	DATE: 09.01.2002

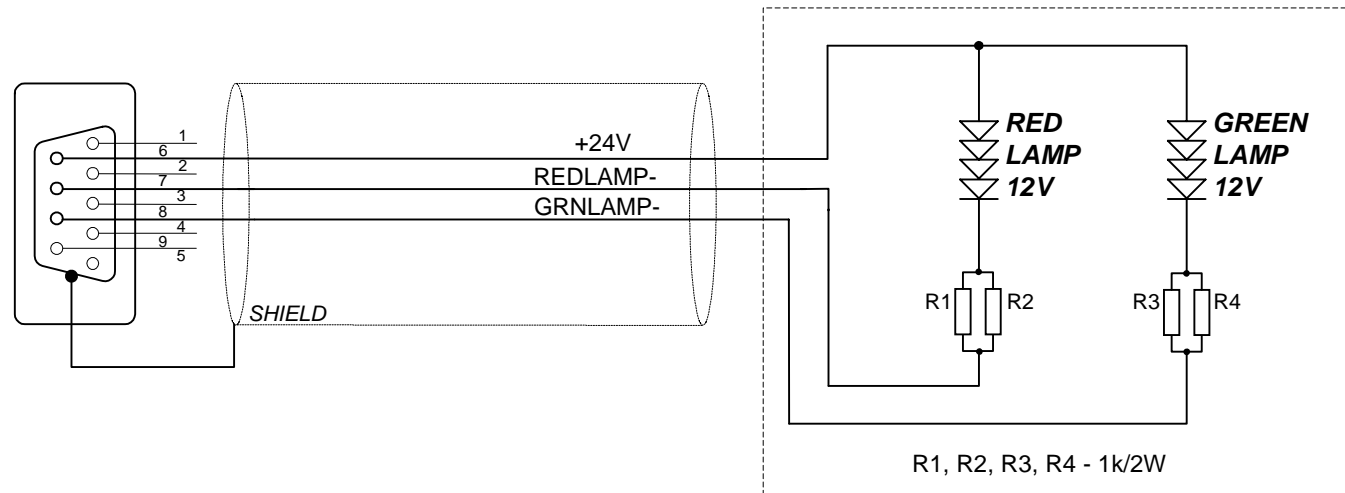



**EC-02-04-001-A**

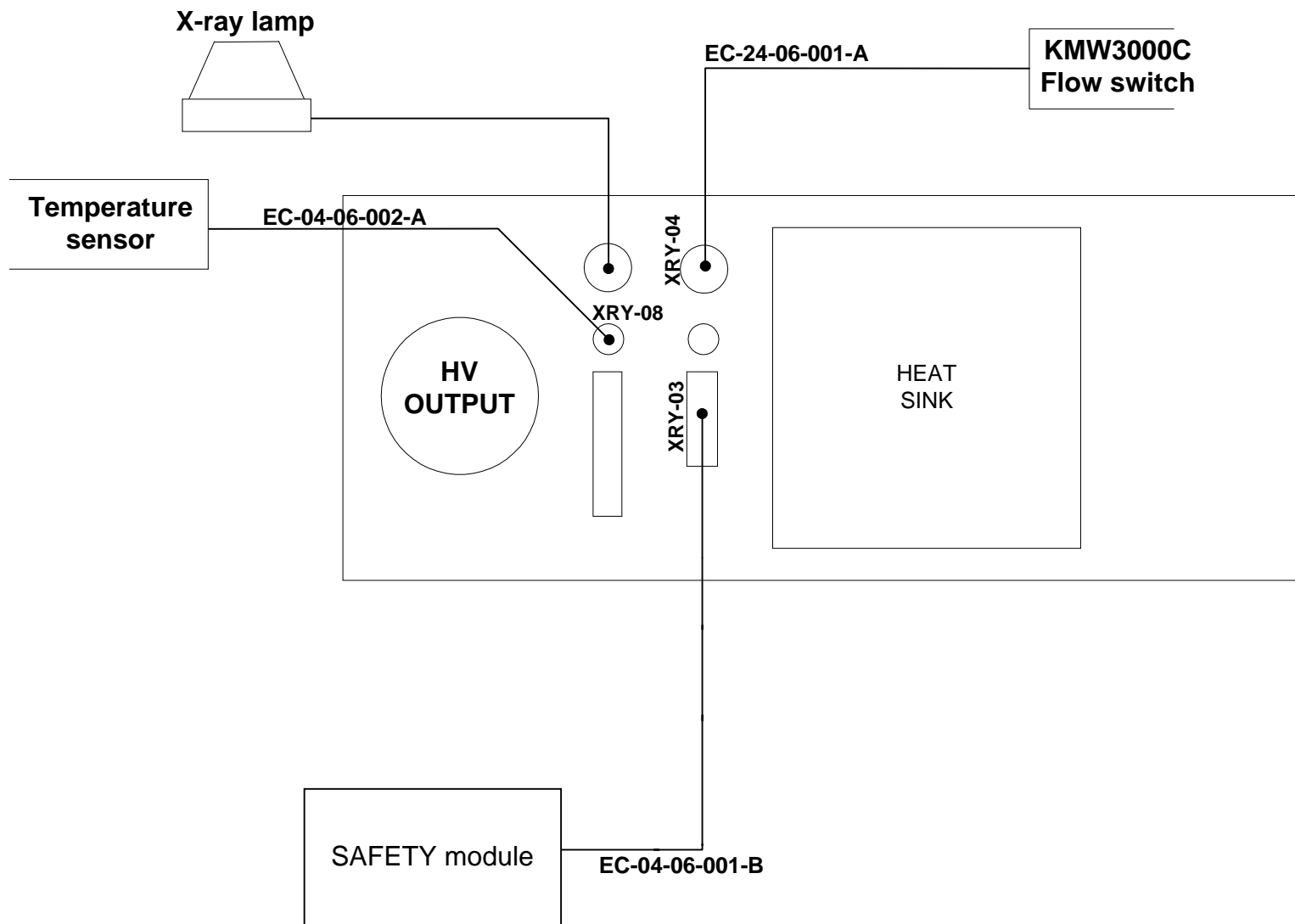



<i>PNS code:</i> <b>EC-02-04-001-A</b>		<i>Length:</i> <b>3.0m</b>	<i>Drg no.:</i> <b>EC-02-04-001-A</b>
<i>Decription:</i> <b>Shutter indicator</b>			
<i>Cable:</i> <b>4 x 0.14mm2 shielded</b>	<i>Connector 1:</i> <b>INT-21</b>		<i>Connector 2:</i> <b>-----</b>
	<i>PNS code:</i> <b>EA-06-00-002-A</b>		<i>PNS code:</i>
<i>PNS code:</i> <b>EA-05-00-002-A</b>	<i>Type:</i> <b>DB9 female</b>		<i>Type:</i>
<i>Type:</i> <b>LiYCY4 x 0.14 shielded</b>	<i>Location:</i> <b>Interface – rear panel</b>		<i>Location:</i>

					<div> oxford diffraction</div>	TITLE: <div>Xcalibur 2</div> <div>Shutter indicator</div>		
					DRG NO. <div>EC-02-04-001-A</div>			
A. No.					DRAWN BY: <div>R. S.</div>	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. <div>A</div>
Appr					APPROVED BY:	DATE: 06/07/2001		SHEET 1 of 2
Date								

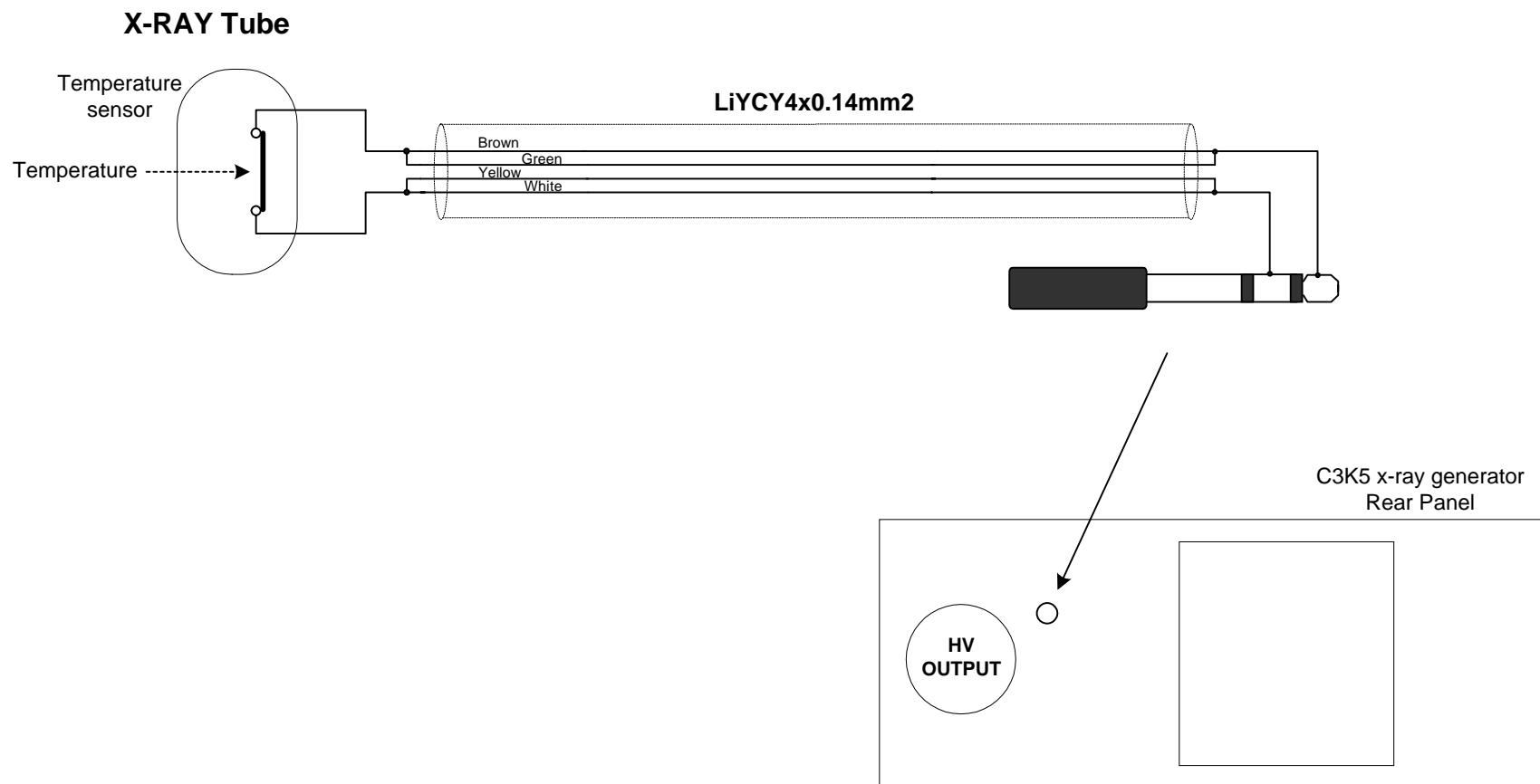



							<b>TITLE:</b> GONIO68332	
					<b>DRG NO.</b> EC-02-04-001-A		<b>Shutter indicator</b>	
A. No.					<b>DRAWN BY:</b> R. S.		<b>FILE:</b> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	
Appr					<b>APPROVED BY:</b>		<b>REV.</b> A	
Date					<b>DATE:</b> 04/07/2001		<b>SHEET</b> 2 of 2	



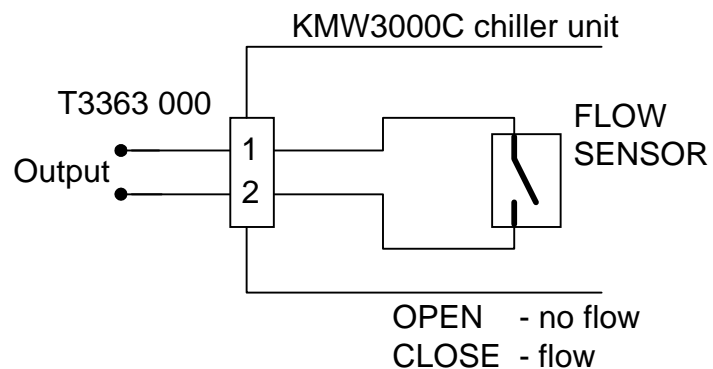
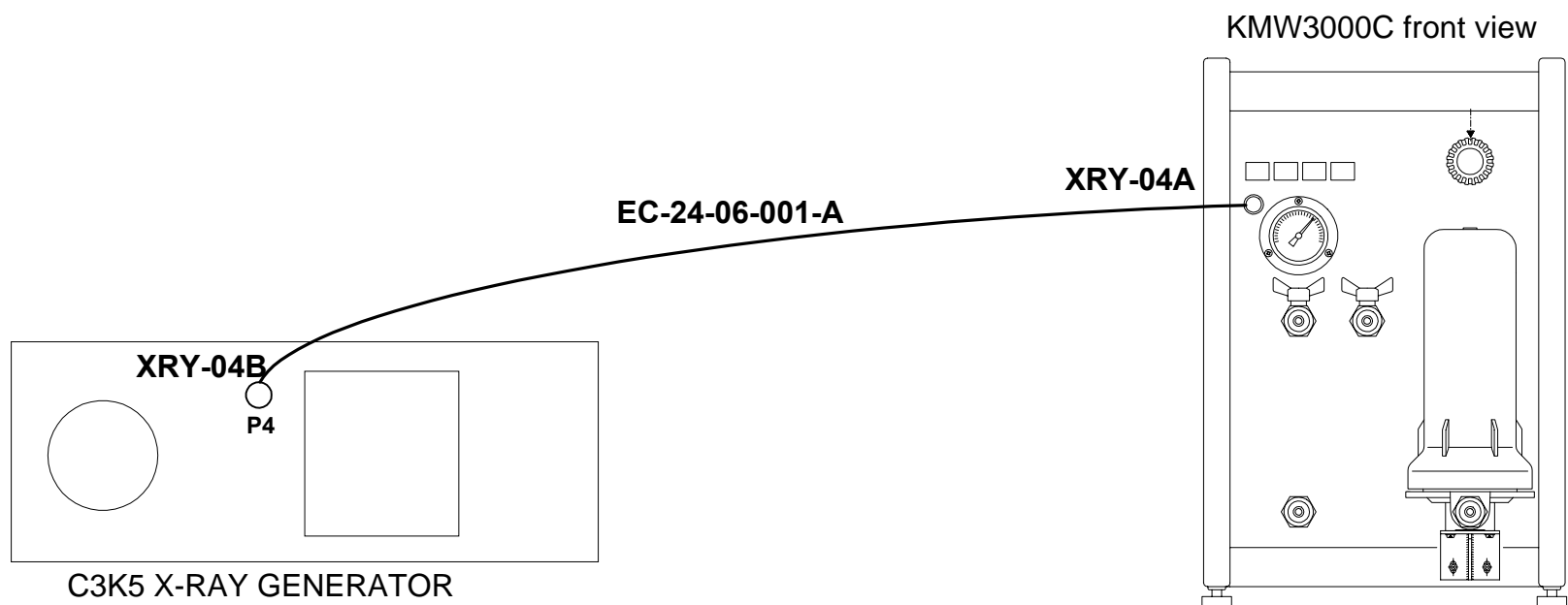
 oxford diffraction	TITLE: C3K5 x-ray generator  Rear panel		
DRG NO.  OD-1-06-25			
DRAWN BY: R. S.	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. A
APPROVED BY:	DATE: July 26, 1999	SHEET	1 of 1

<b>A. No.</b>				
<b>Appr</b>				
<b>Date</b>				



							<b>TITLE: C3K5 x-ray generator</b>	
					<b>DRG NO. EC-04-06-002-A</b>		<b>Temperature sensor</b>	
					<b>DRAWN BY: R. S.</b>		<b>FILE:</b> \\electronics\calibur\gonio68332\Wersje robocze	
					<b>APPROVED BY:</b>		<b>DATE:</b> 07.01.2002	
							<b>REV. A</b>	
							<b>SHEET 1 of 1</b>	

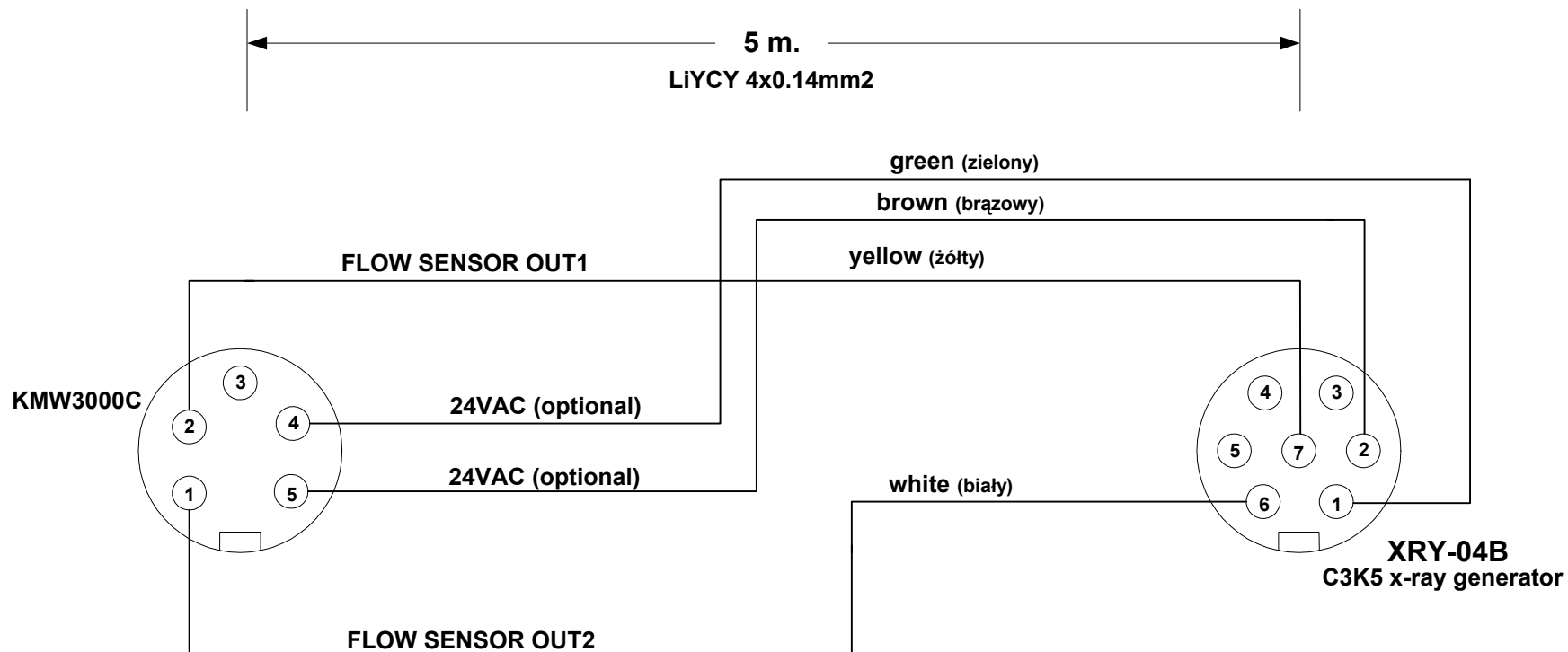
<b>A. No.</b>				
<b>Appr</b>				
<b>Date</b>				




PNS code: <b>EC-24-06-001-A</b>		Length: <b>5.0m</b>	Drg no.: <b>EC-24-06-001-A</b>
Description: <b>Flow sensor (inside KMW3000C) connection</b>			
Cable: <b>4 x 0.14mm<sup>2</sup> shielded</b>		Connector 1: <b>XRY-04A</b>	Connector 2: <b>XRY-04B</b>
		PNS code: <b>EA-06-00-021-A</b>	PNS code: <b>EA-06-00-046-A</b>
PNS code: <b>EA-05-00-002-A</b>		Type: <b>T3363 000</b>	Type: <b>T3475 001</b>
Type: <b>LiYCY4 x 0.14 shielded</b>		Location: <b>KMW3000C</b>	Location: <b>C3K5 x-ray gen.</b>

A. No.				
Appr				
Date				

 DRG NO. <b>EC-24-06-001-A</b> DRAWN BY: <b>R. S.</b> APPROVED BY:	TITLE: <b>KMW3000C</b> <b>Flow sensor cable</b>		
	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. <b>A</b>
	DATE: <b>03/01/2002</b>	SHEET <b>1 of 2</b>	



							<b>TITLE:</b> KMW3000C Flow sensor cable	
					DRG NO. <b>EC-24-06-001-A</b>		FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	
					DRAWN BY: <b>R. S.</b>		REV. <b>B</b>	
					APPROVED BY:		DATE: 03/01/2001	
							SHEET <b>2 of 2</b>	

A. No.	B			
Appr				
Date	10.10.2002			



I/O module

D15F

DB15M

CAB-05

X-ray tube  
temperature sensor

OPEN - high temp.

KMW3000C flow sensor  
(see KMW3000C wiring diagram)

OPEN - no flow

JB1

SPELLMAN x-ray  
generator

brown

green

1,3m

LiYCY4x0.14

yellow

white



DRG NO.

EC-24-06-001-B

DRAWN BY: R. S.

APPROVED BY:

TITLE:

SPELLMAN x-ray generator  
Safety connections

FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical  
documentation\

REV.

C

DATE: 01.2002

SHEET 1 of 1

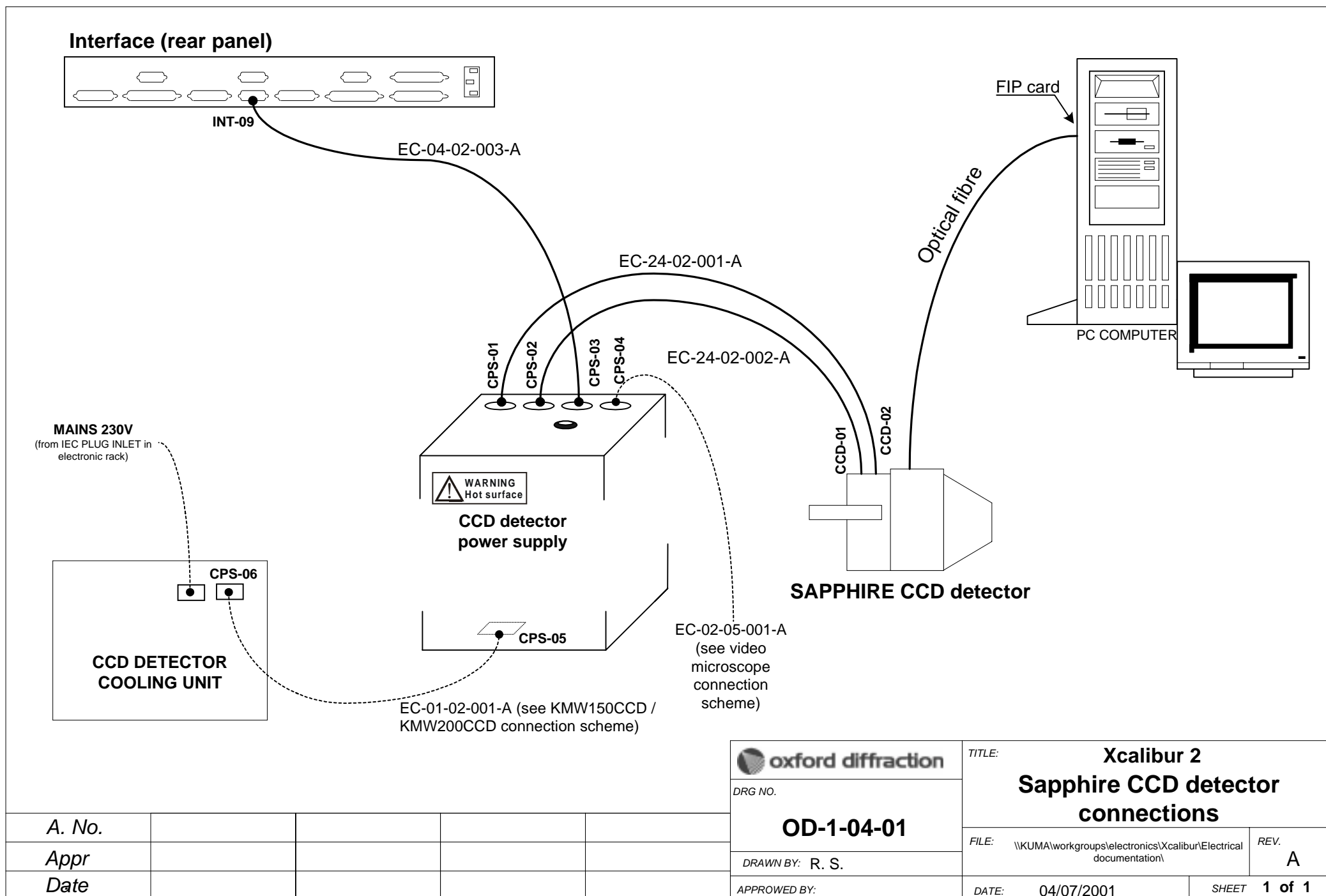
A. No.

C

Appr

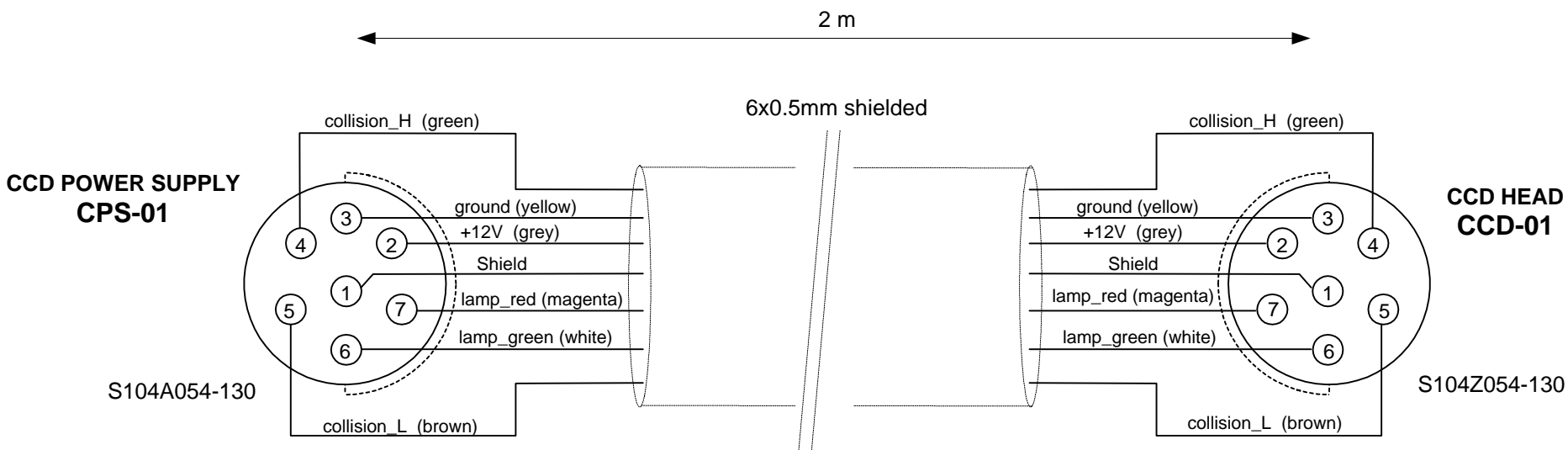
Date

2/12/2002



A. No.				
Appr				
Date				

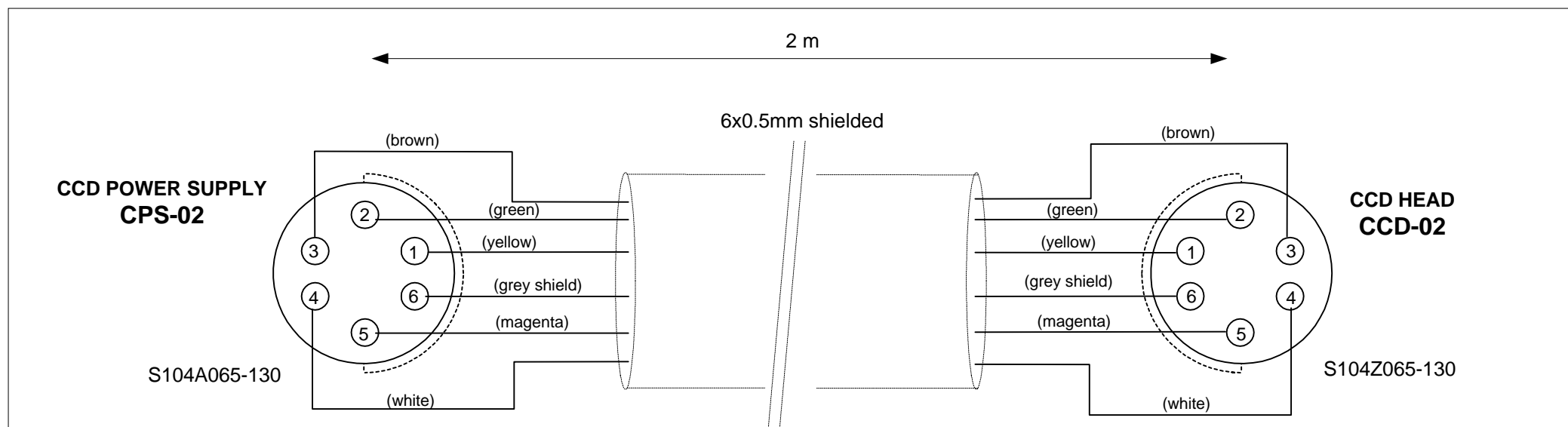
	<b>oxford diffraction</b>			<b>TITLE:</b> Xcalibur 2 Sapphire CCD detector connections	
	DRG NO.  <b>OD-1-04-01</b>			<b>FILE:</b> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	
	DRAWN BY: R. S.			<b>REV.</b> A	
	APPROVED BY:			<b>DATE:</b> 04/07/2001	<b>SHEET</b> 1 of 1




Pin	Signal name	Colour
1	shield	shield
2	+12V	grey
3	ground	yellow
4	colision H	green
5	collision L	brown
6	lamp green	white
7	lamp red	magenta

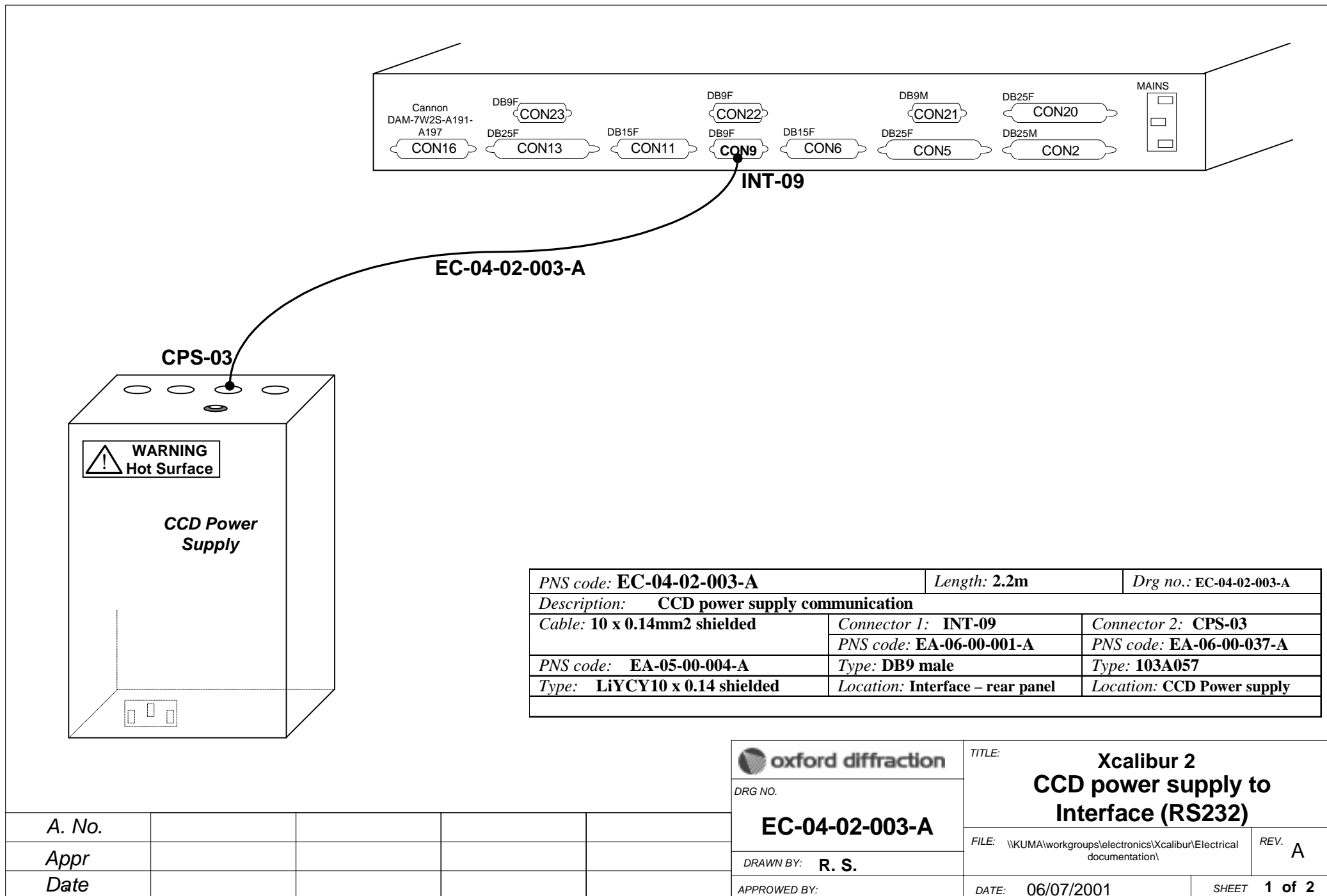
 DRG NO.	<b>TITLE:</b> Xcalibur 2		
	<b>EC-24-02-001-A</b>		
DRAWN BY: R. S.	<b>FILE:</b> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		<b>REV.</b> A
APPROVED BY:	<b>DATE:</b> 2001	<b>SHEET</b>	<b>1 of 1</b>

A. No.				
Appr				
Date				



Pin	Signal name	Colour
1	Peltier supply +	yellow
2	Temperature sensor PT_IH	green
3	Temperature sensor PT_UH	brown
4	Temperature sensor PT_UL	white
5	Peltier supply -	magenta
6	ground	grey shield

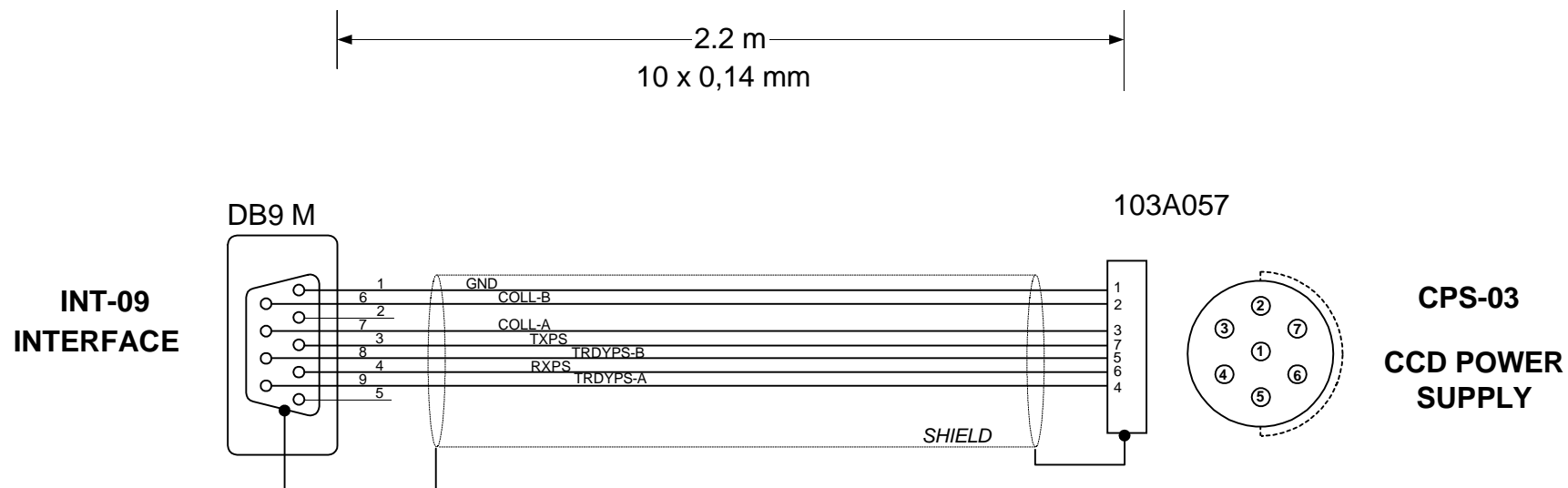
					 <b>oxford diffraction</b>	<b>TITLE:</b> <b>Xcalibur 2</b>			
					DRG NO.	<b>CCD head cooler cable</b>			
					<b>EC-24-02-002-A</b>	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\			REV. A
					DRAWN BY: R. S.				
					APPROVED BY:	DATE: 2001		SHEET 1 of 1	
A. No.									
Appr									
Date									



PNS code: <b>EC-04-02-003-A</b>		Length: <b>2.2m</b>	Drg no.: <b>EC-04-02-003-A</b>
Description: <b>CCD power supply communication</b>			
Cable: <b>10 x 0.14mm2 shielded</b>		Connector 1: <b>INT-09</b>	Connector 2: <b>CPS-03</b>
		PNS code: <b>EA-06-00-001-A</b>	PNS code: <b>EA-06-00-037-A</b>
PNS code: <b>EA-05-00-004-A</b>		Type: <b>DB9 male</b>	Type: <b>103A057</b>
Type: <b>LiYCY10 x 0.14 shielded</b>		Location: <b>Interface – rear panel</b>	Location: <b>CCD Power supply</b>

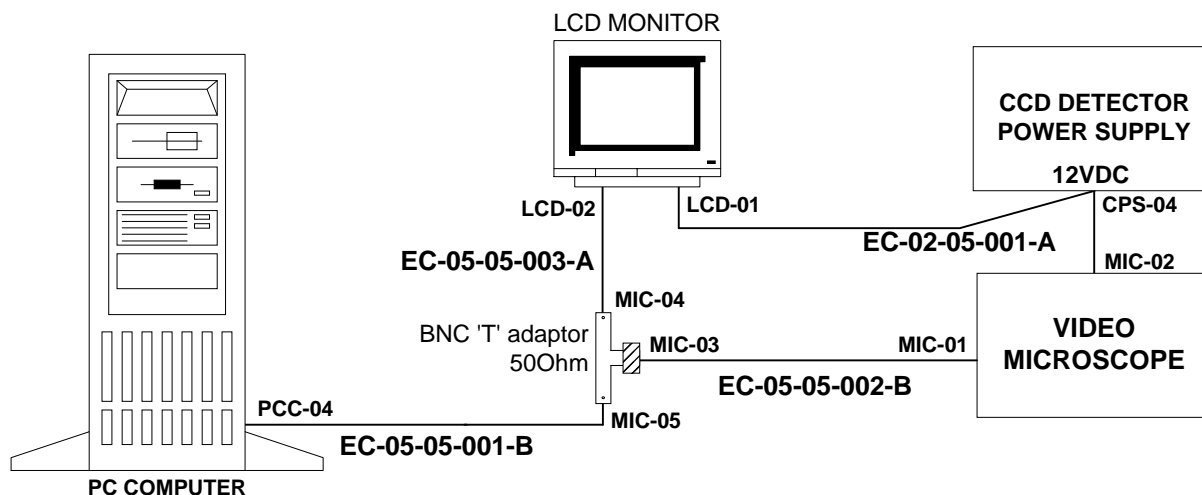
		TITLE: <b>Xcalibur 2 CCD power supply to Interface (RS232)</b>	
		FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. <b>A</b>
DRAWN BY: <b>R. S.</b>		DATE: <b>06/07/2001</b>	
APPROVED BY:		SHEET <b>1 of 2</b>	

A. No.				
Appr				
Date				



A. No.				
Appr				
Date				

	<b>TITLE:</b> Xcalibur 2 <b>CCD power supply to  Interface (RS232)</b>		
	<b>DRG NO.</b> <b>EC-04-02-003-A</b>		
<b>DRAWN BY:</b> R. S.		<b>FILE:</b> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	<b>REV.</b> A
<b>APPROVED BY:</b>		<b>DATE:</b> 04/07/2001	<b>SHEET</b> 2 of 2



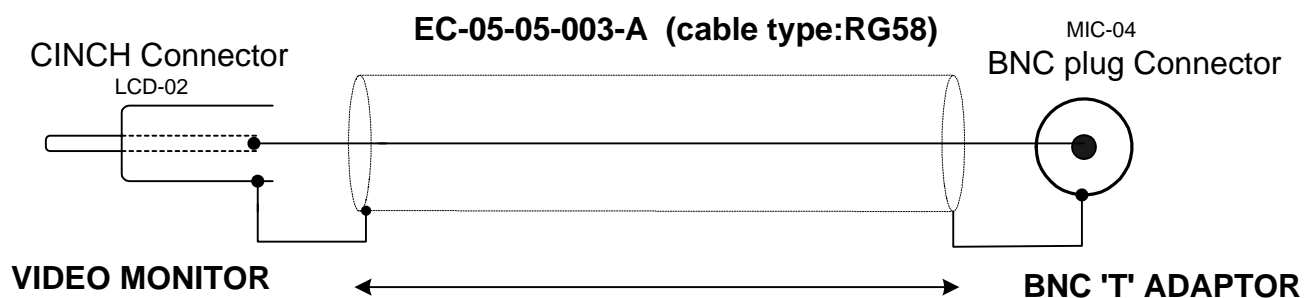
### VIDEO MICROSCOPE KIT - BLOCK DIAGRAM

OD-1-07-01

Rev. C

27/08/2002

\\electronics\xcallibur\gonio68332\Dokumentacja\_elektryczna\Microscope

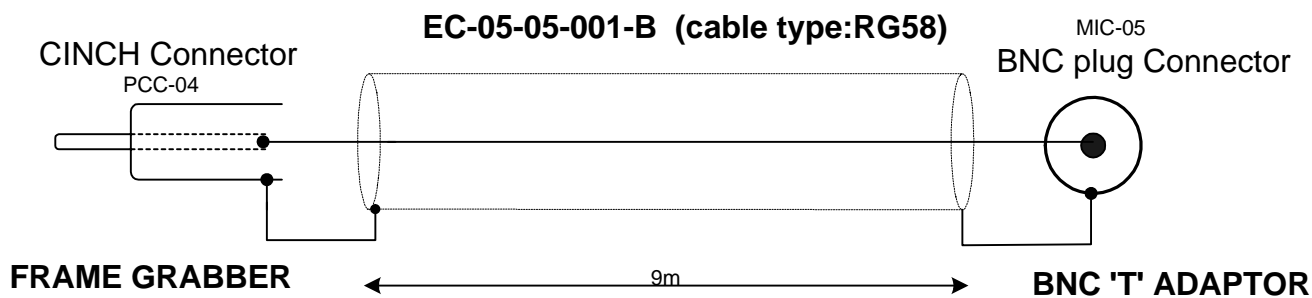


### EC-05-05-003-A - BNC 'T' ADAPTOR TO MONITOR CABLE

OD-1-07-04

27/08/2002

\\electronics\xcallibur\gonio68332\Dokumentacja\_elektryczna\Microscope



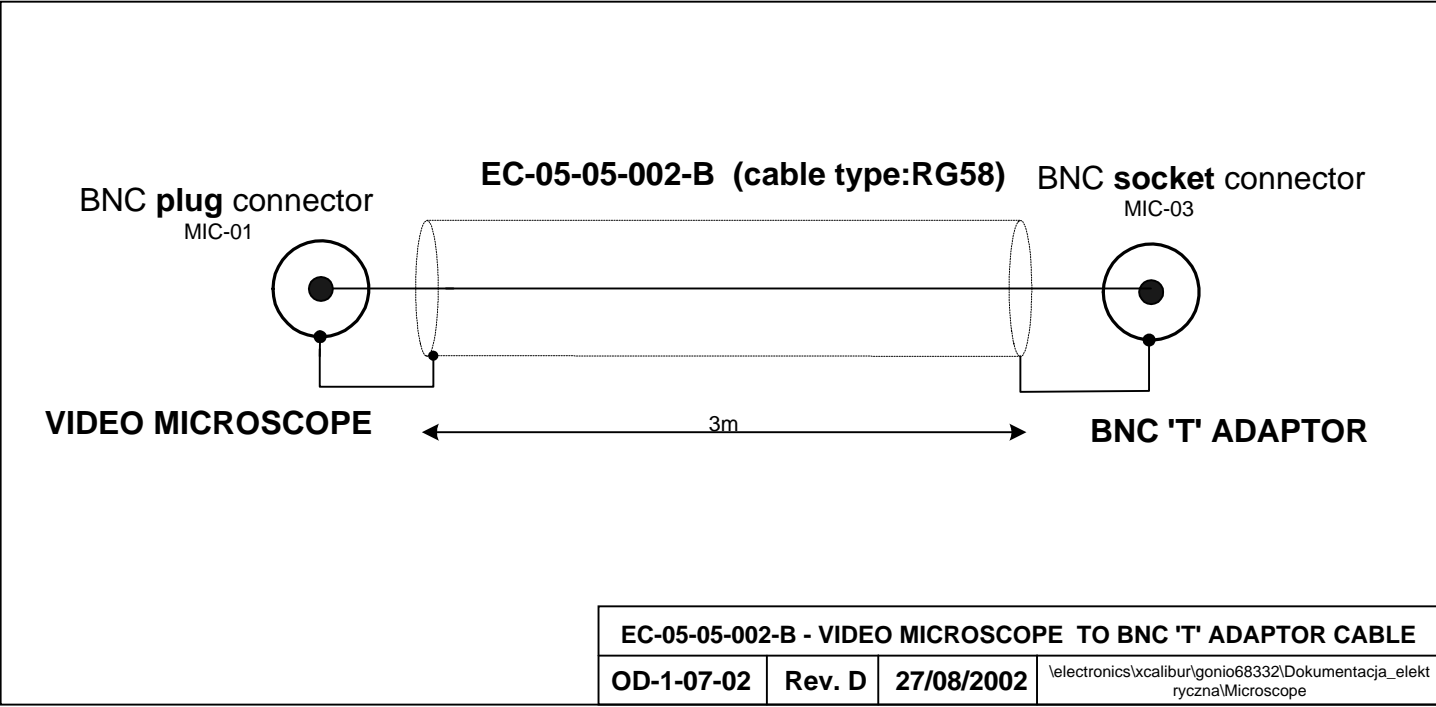
### EC-05-05-001-B - BNC 'T' ADAPTOR TO FRAME GRABBER CABLE

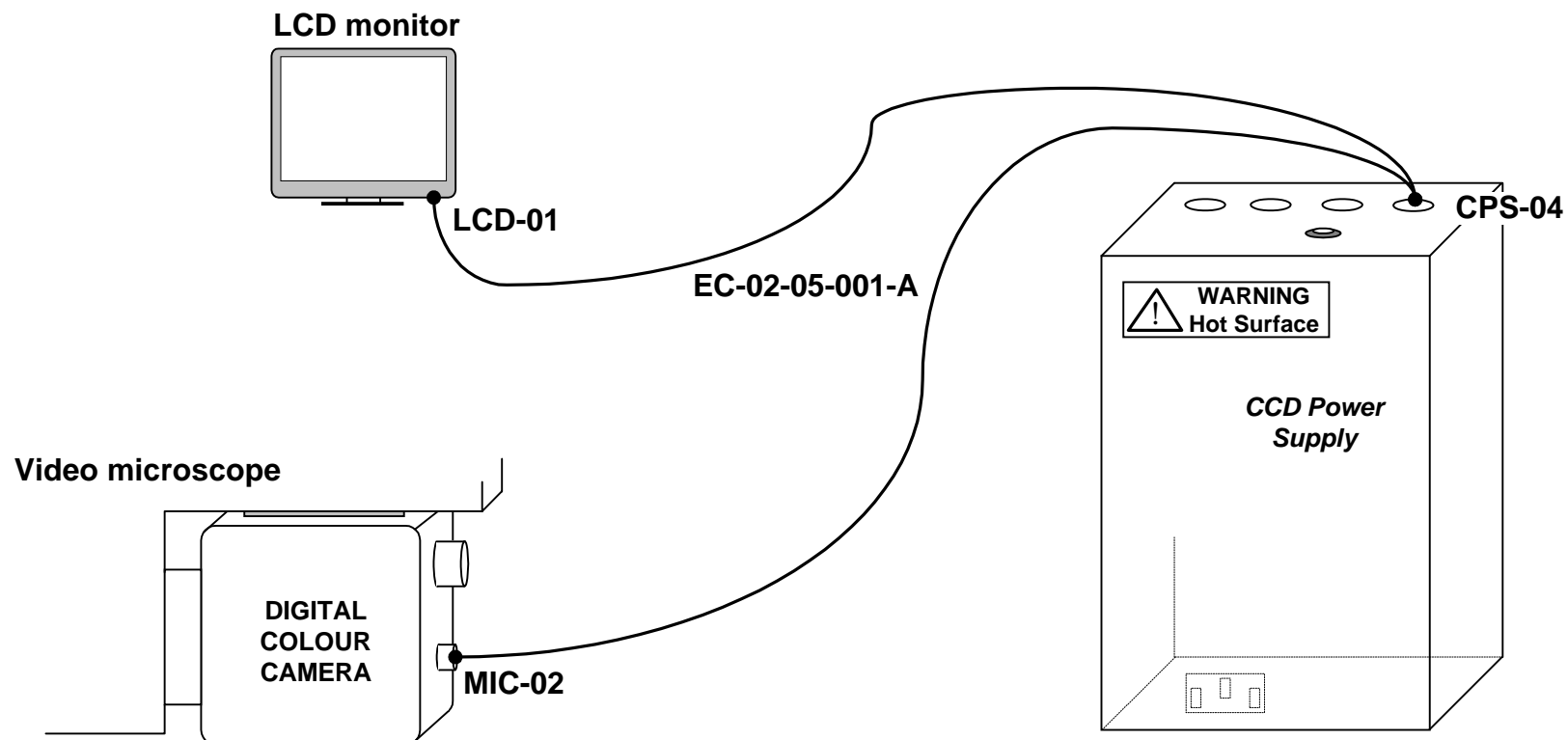
OD-1-07-03

Rev. E


27/08/2002

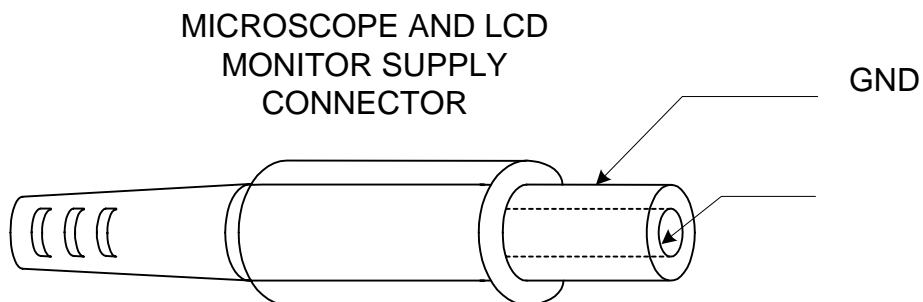
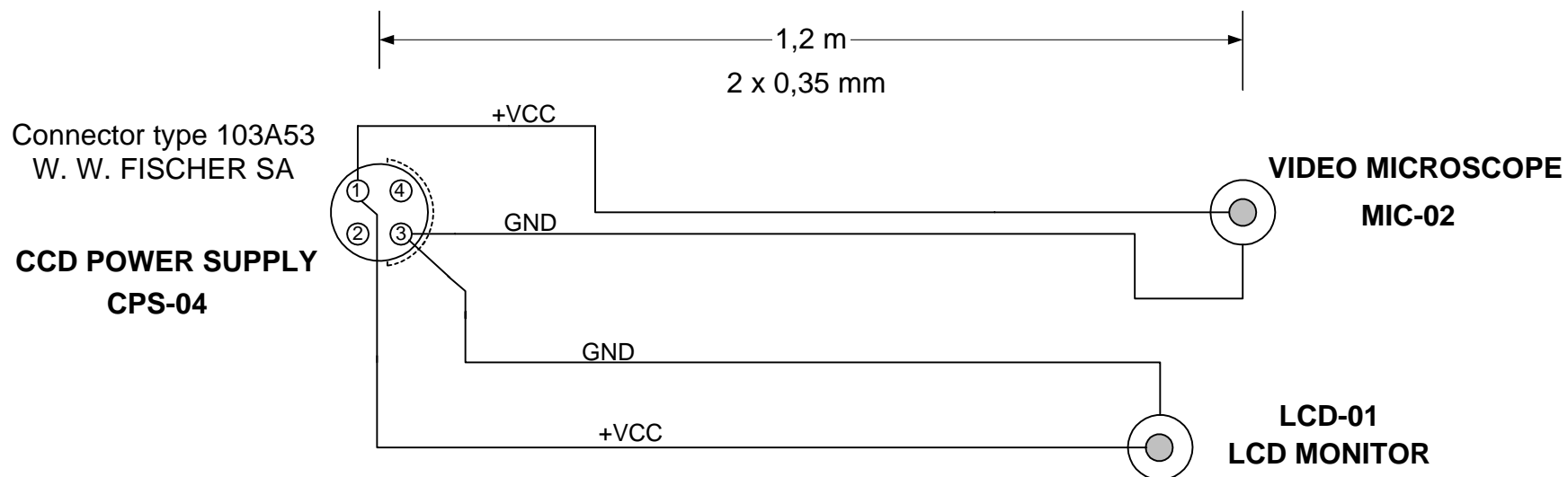
\\electronics\xcallibur\gonio68332\Dokumentacja\_elektryczna\Microscope






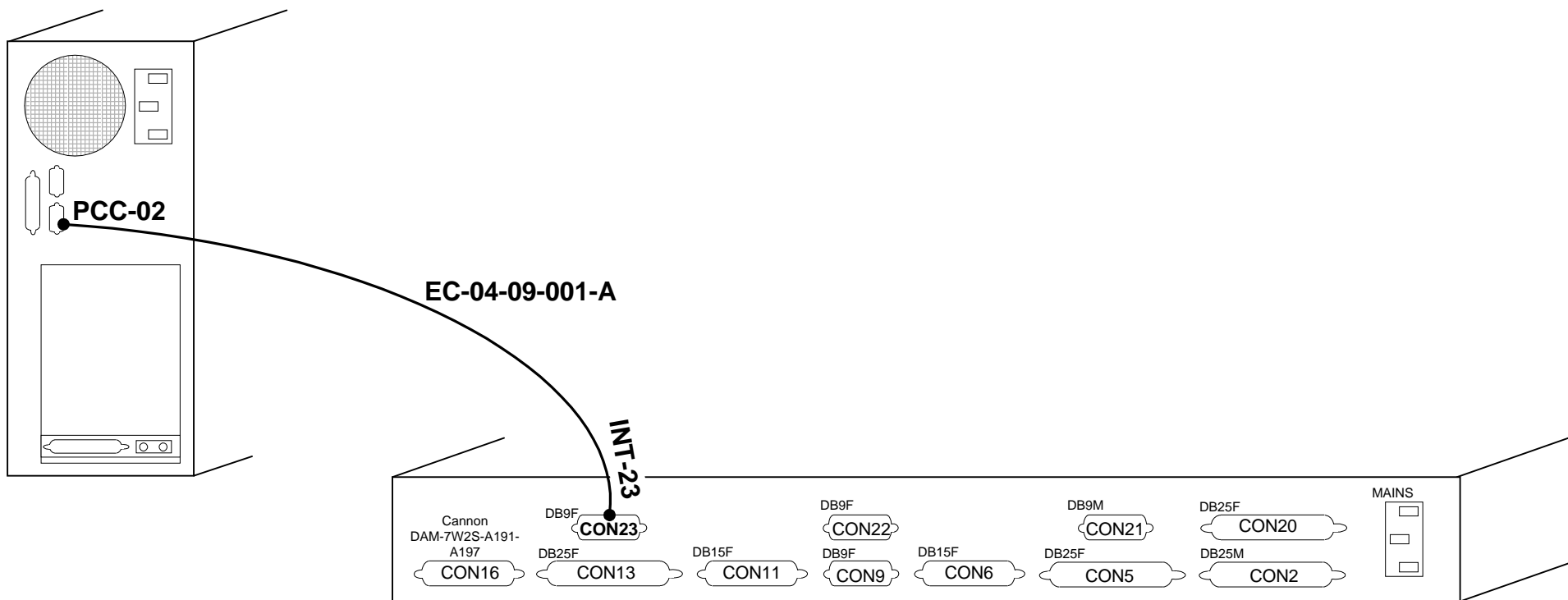
PNS code: <b>EC-02-05-001-A</b>		Length: <b>2x1.2m</b>	Drg no.: <b>EC-02-05-001-A</b>
Description: <b>LCD monitor and video microscope supply</b>			
Cable: <b>2 x 0.35mm2 shielded</b>	Connector 1: <b>CPS-04</b>	Connector 2: <b>MIC-02</b>	Connector 3: <b>LCD-01</b>
	PNS code: <b>EA-06-00-036-A</b>	PNS code: <b>EA-06-00-018-A</b>	PNS code: <b>EA-06-00-018-A</b>
PNS code: <b>EA-05-00-015-A</b>	Type: <b>103A053 Fischer</b>	Type: <b>T252</b>	Type: <b>T252</b>
Type: <b>LiYCY2x0.35mm2</b>	Location: <b>CCD power supply</b>	Location: <b>Video microscope</b>	Location: <b>LCD monitor</b>

					<div><div></div><div>oxford diffraction</div></div>	<div>TITLE:</div> <div>LCD monior and video microscope power supply cable</div>		
					DRG NO.			
A. No.					EC-02-05-001-A	FILE: \\KUMA\workgroups\electronics\gonio68332\cables		REV. A
Appr						DRAWN BY: R. S.		
Date					APPROVED BY:	DATE: 09/07/2001	SHEET	1 of 2




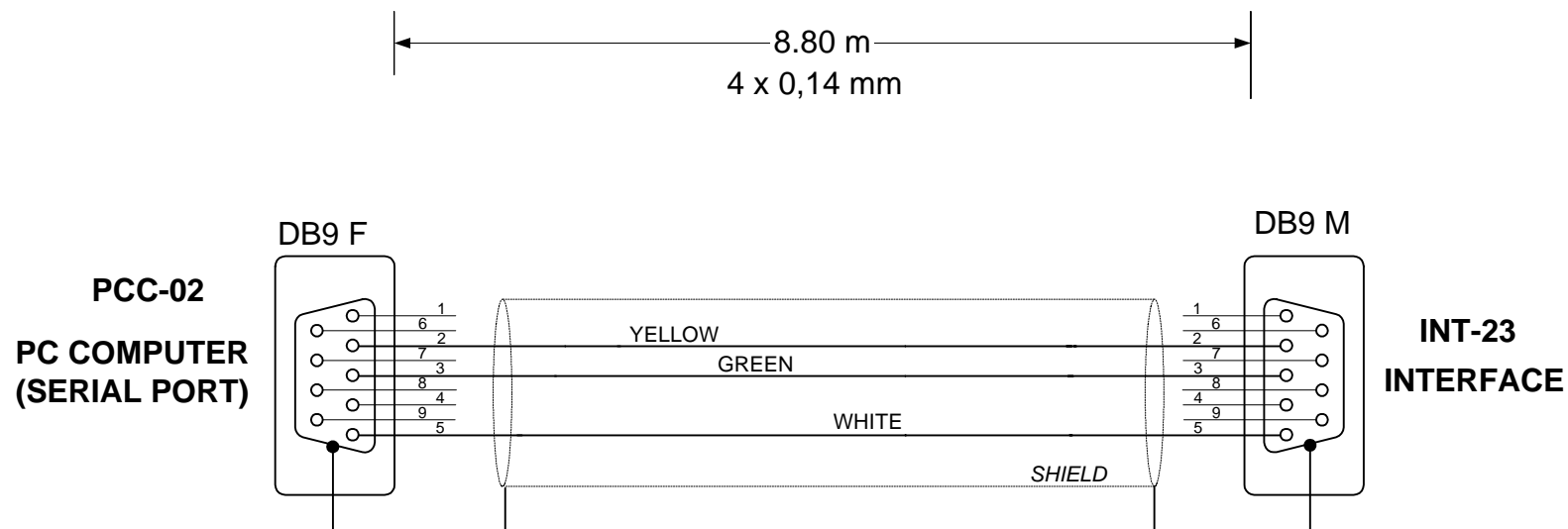
A. No.				
Appr				
Date				


		TITLE:	
DRG NO.		LCD monior and video microscope power supply cable	
EC-02-05-001-A		FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. A
DRAWN BY: R. S.		DATE: 09/07/2001	SHEET 2 of 2
APPROVED BY:			

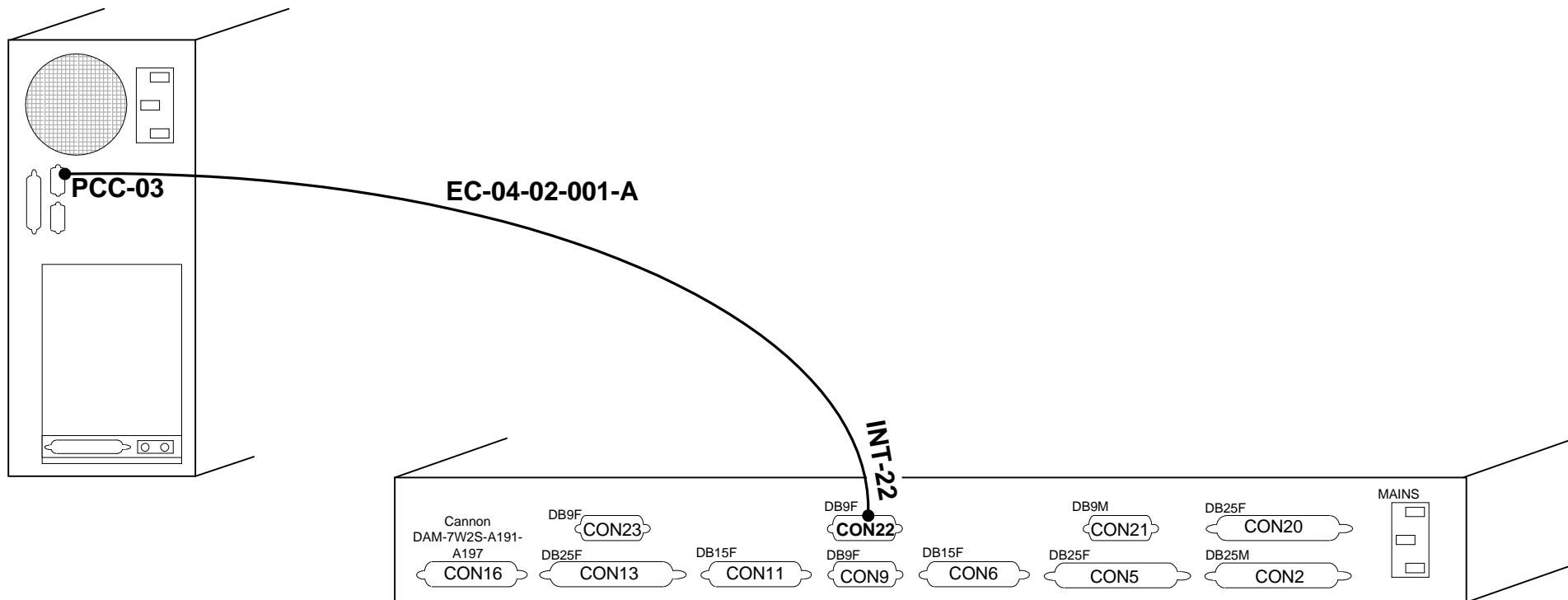


PNS code: <b>EC-04-09-001-A</b>		Length: <b>8,80m</b>	Drg no.: <b>EC-04-09-001-A</b>
Description: <b>Interface communication</b>			
Cable: <b>4 x 0.14mm<sup>2</sup> shielded</b>		Connector 1: <b>INT-23</b>	Connector 2: <b>PCC-02</b>
		PNS code: <b>EA-06-00-001-A</b>	PNS code: <b>EA-06-00-002-A</b>
PNS code: <b>EA-05-00-002-A</b>		Type: <b>DB9 male</b>	Type: <b>DB9 female</b>
Type: <b>LiYCY4 x 0.14 w ekranie</b>		Location: <b>Interface – rear panel</b>	Location: <b>PC (serial port)</b>


					 DRG NO. <b>EC-04-09-001-A</b>	TITLE: <b>Xcalibur 2</b> <b>Interface RS232 cable</b>		
A. No.						FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. <b>A</b>	
Appr					DRAWN BY: <b>R. S.</b>			
Date					APPROVED BY:	DATE: <b>04/07/2001</b>	SHEET <b>1 of 2</b>	

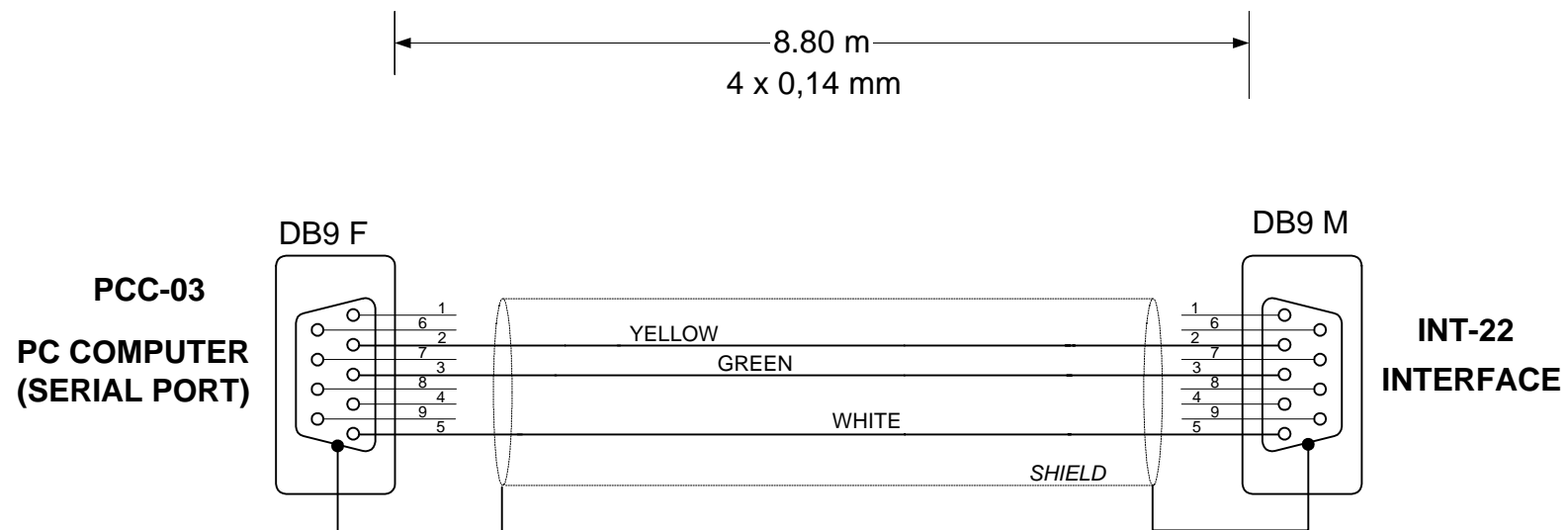



						<div>TITLE:</div> <div>Xcalibur 2</div> <div>Interface RS232 cable</div>						
					DRG NO.							
					EC-04-09-001-A							
					DRAWN BY:	R. S.			REV.	A		
					APPROVED BY:				DATE:	04/07/2001	SHEET	2 of 2
A. No.												
Appr												
Date												

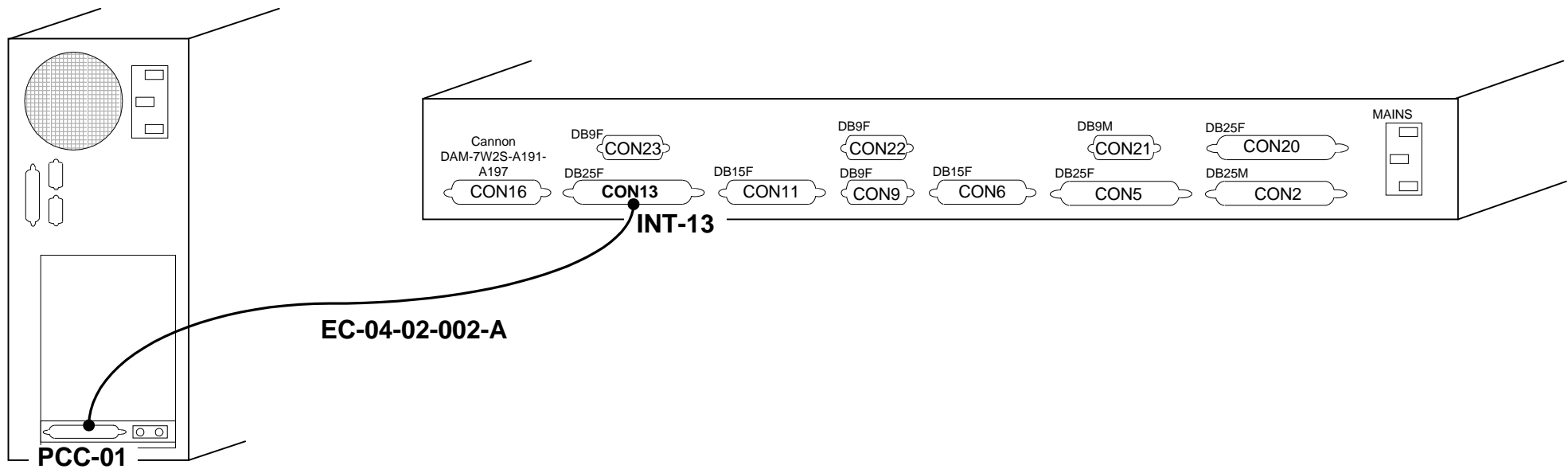


PNS code: <b>EC-04-02-001-A</b>		Length: <b>8.80m</b>	Drg no.: <b>EC-04-02-001-A</b>
Description: <b>CCD power supply communication</b>			
Cable: <b>4 x 0.14mm<sup>2</sup> shielded</b>	Connector 1: <b>INT-22</b>		Connector 2: <b>PCC-03</b>
	PNS code: <b>EA-06-00-001-A</b>		PNS code: <b>EA-06-00-002-A</b>
PNS code: <b>EA-05-00-002-A</b>	Type: <b>DB9 male</b>		Type: <b>DB9 female</b>
Type: <b>LiYCY4 x 0.14 shielded</b>	Location: <b>Interface – rear panel</b>		Location: <b>PC (serial port)</b>

					 DRG NO. <b>EC-04-02-001-A</b>	TITLE: <b>Xcalibur 2 CCD power supply to PC (RS232)</b>		
A. No.								
Appr					DRAWN BY: <b>R. S.</b>	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. <b>A</b>
Date					APPROVED BY:	DATE: <b>06/07/2001</b>	SHEET <b>1 of 2</b>	

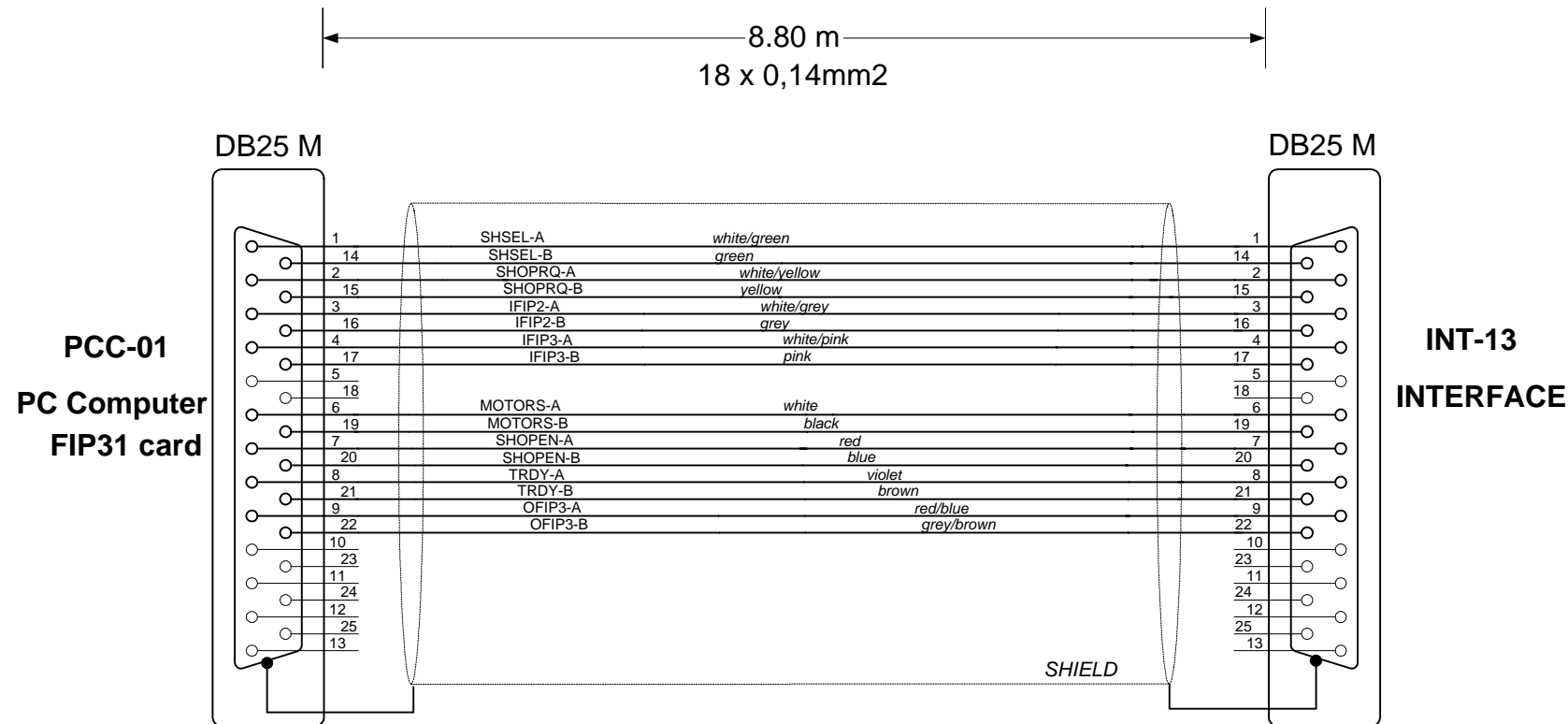


					<div> oxford diffraction</div>	<div>TITLE: Xcalibur 2 CCD power supply to PC (RS232)</div>		
					DRG NO.  EC-04-02-001-A			
A. No.						FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. A
Appr					DRAWN BY: R. S.			
Date					APPROVED BY:	DATE: 04/07/2001	SHEET 2 of 2	




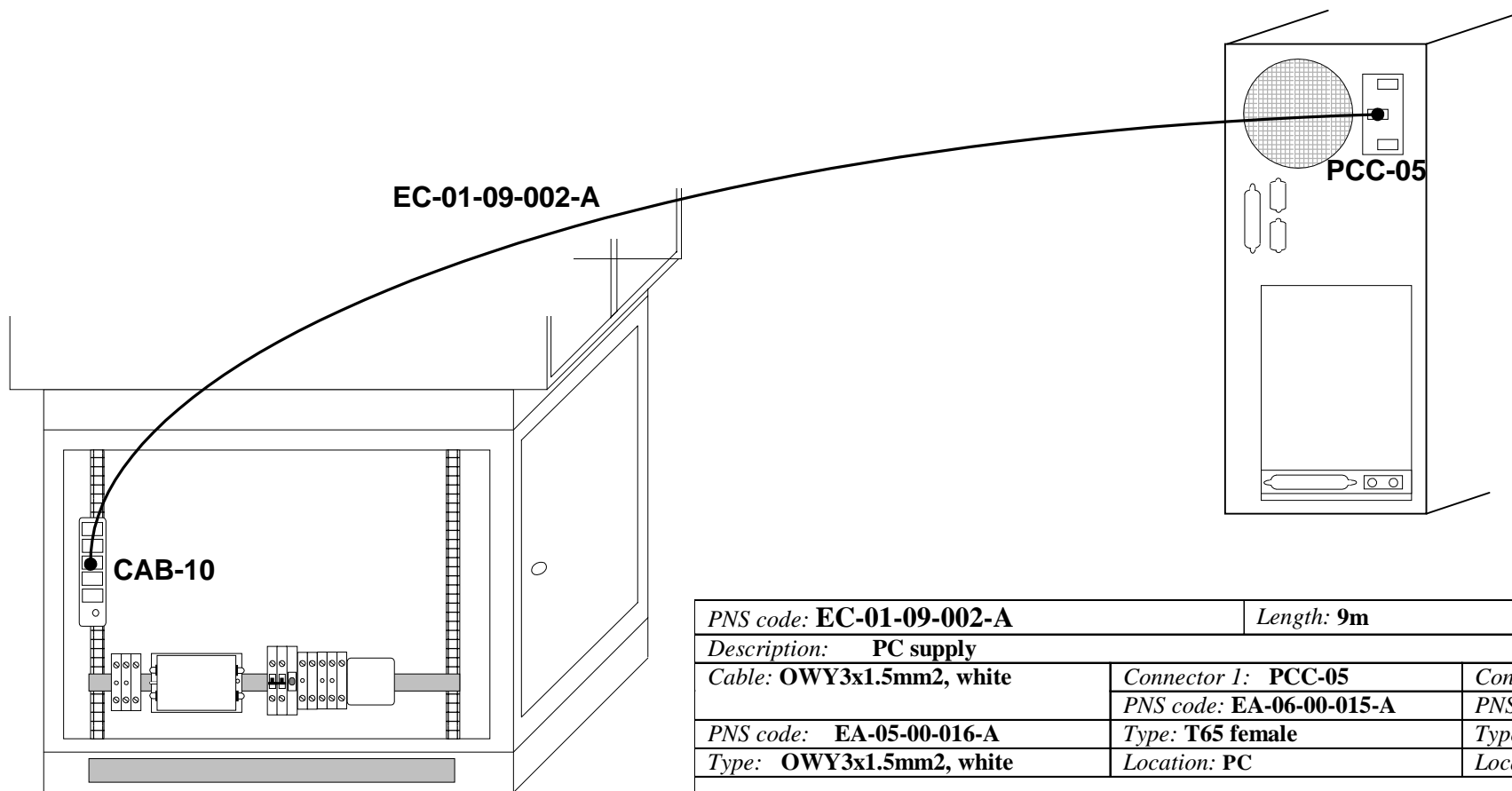
PNS code: <b>EC-04-02-002-A</b>		Length: <b>8.80m</b>	Drg no.: <b>EC-04-02-002-A</b>
Description: <b>FIP31 communication</b>			
Cable: <b>18 x 0.14mm<sup>2</sup> shielded</b>	Connector 1: <b>INT-13</b>		Connector 2: <b>PCC-01</b>
	PNS code: <b>EA-06-00-005-A</b>		PNS code: <b>EA-06-00-005-A</b>
PNS code: <b>EA-05-00-013-A</b>	Type: <b>DB25 male</b>		Type: <b>DB25 male</b>
Type: <b>LiYCY18 x 0.14 shielded</b>	Location: <b>Interface – rear panel</b>		Location: <b>PC (FIP31)</b>

<div> <div> <b>oxford diffraction</b> </div> <div>DRG NO.</div> <div><b>EC-04-02-002-A</b></div> <div>DRAWN BY: R. S.</div> <div>APPROVED BY:</div> </div>					<div>TITLE:</div> <div><b>Xcalibur 2</b></div> <div><b>FIP31 to Interface cable</b></div>		
					FILE:	\\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. <b>A</b>
					DATE:	<b>06/07/2001</b>	SHEET <b>1 of 2</b>
A. No.							
Appr							
Date							




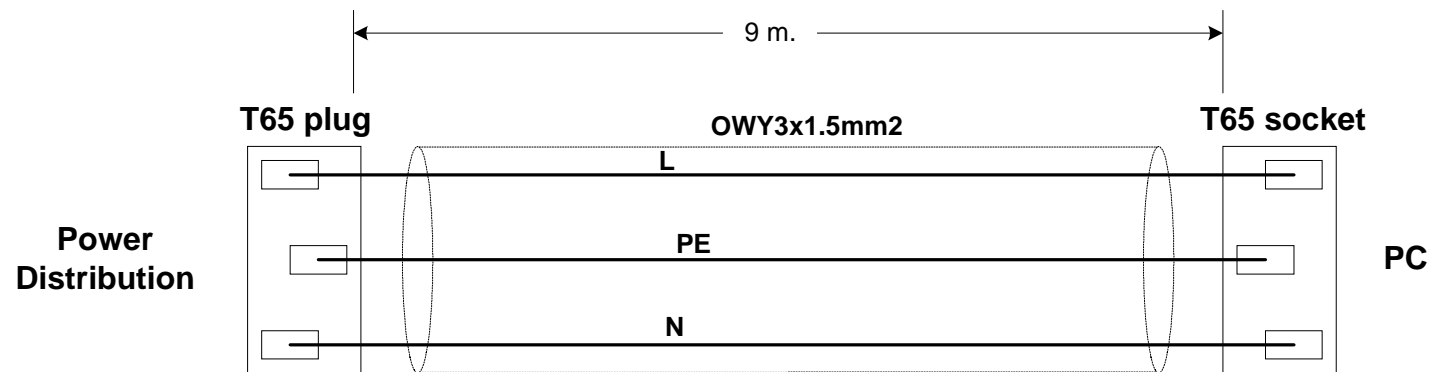
A. No.				
Appr				
Date				


 DRG NO. <b>EC-04-02-002-A</b>	TITLE: <b>Xcalibur 2</b> <b>FIP31 to Interface cable</b>	
	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. <b>A</b>
DRAWN BY: R. S.	DATE: 04/07/2001	SHEET <b>2 of 2</b>
APPROVED BY:		

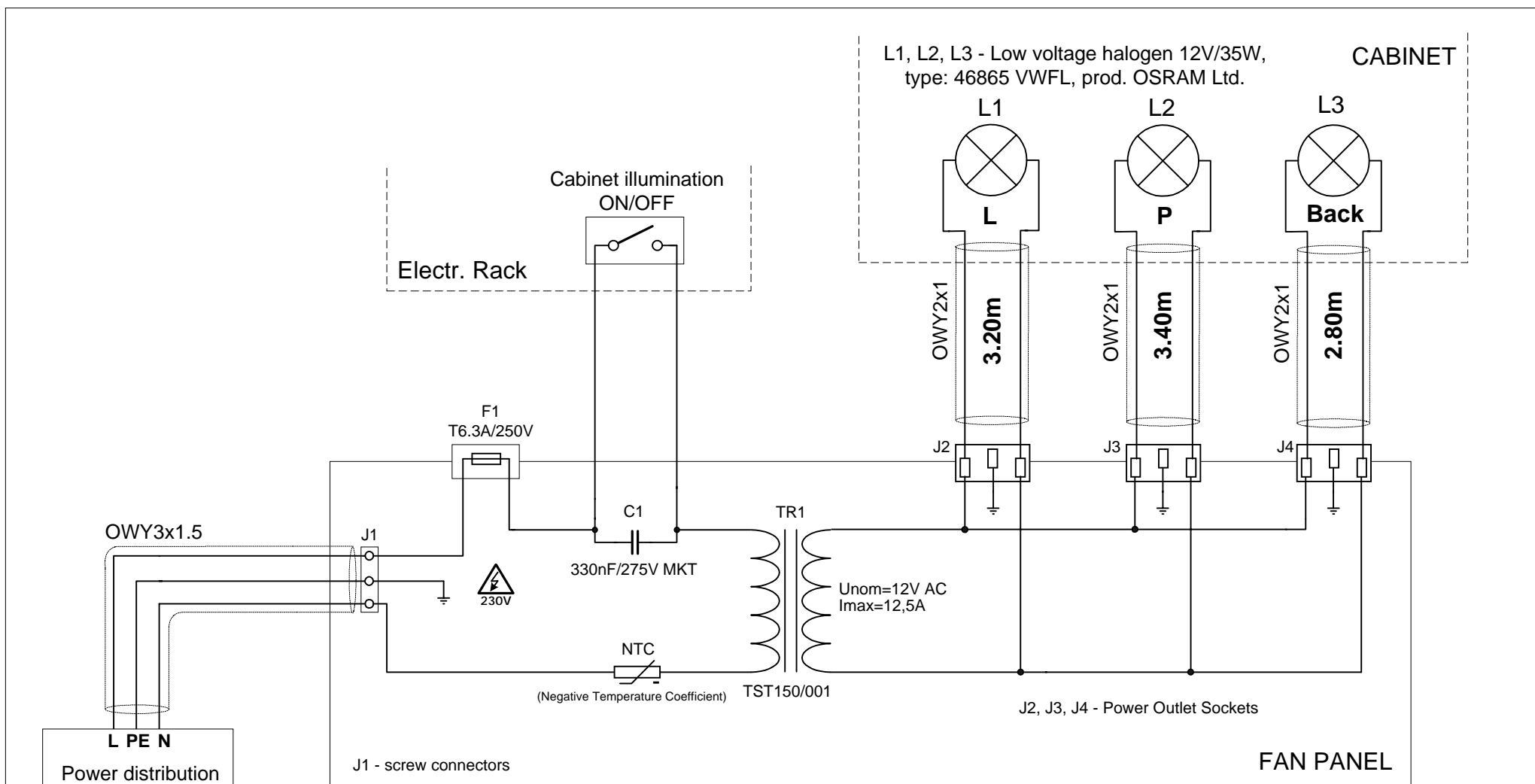


<i>PNS code:</i> <b>EC-01-09-002-A</b>		<i>Length:</i> <b>9m</b>	<i>Drg no.:</i> EC-01-09-002-A
<i>Description:</i> <b>PC supply</b>			
<i>Cable:</i> <b>OWY3x1.5mm2, white</b>	<i>Connector 1:</i> <b>PCC-05</b>	<i>Connector 2:</i> <b>CAB-10</b>	
	<i>PNS code:</i> <b>EA-06-00-015-A</b>	<i>PNS code:</i> <b>EA-06-00-014-A</b>	
<i>PNS code:</i> <b>EA-05-00-016-A</b>	<i>Type:</i> <b>T65 female</b>	<i>Type:</i> <b>T65 male</b>	
<i>Type:</i> <b>OWY3x1.5mm2, white</b>	<i>Location:</i> <b>PC</b>	<i>Location:</i> <b>IEC plug inlet</b>	

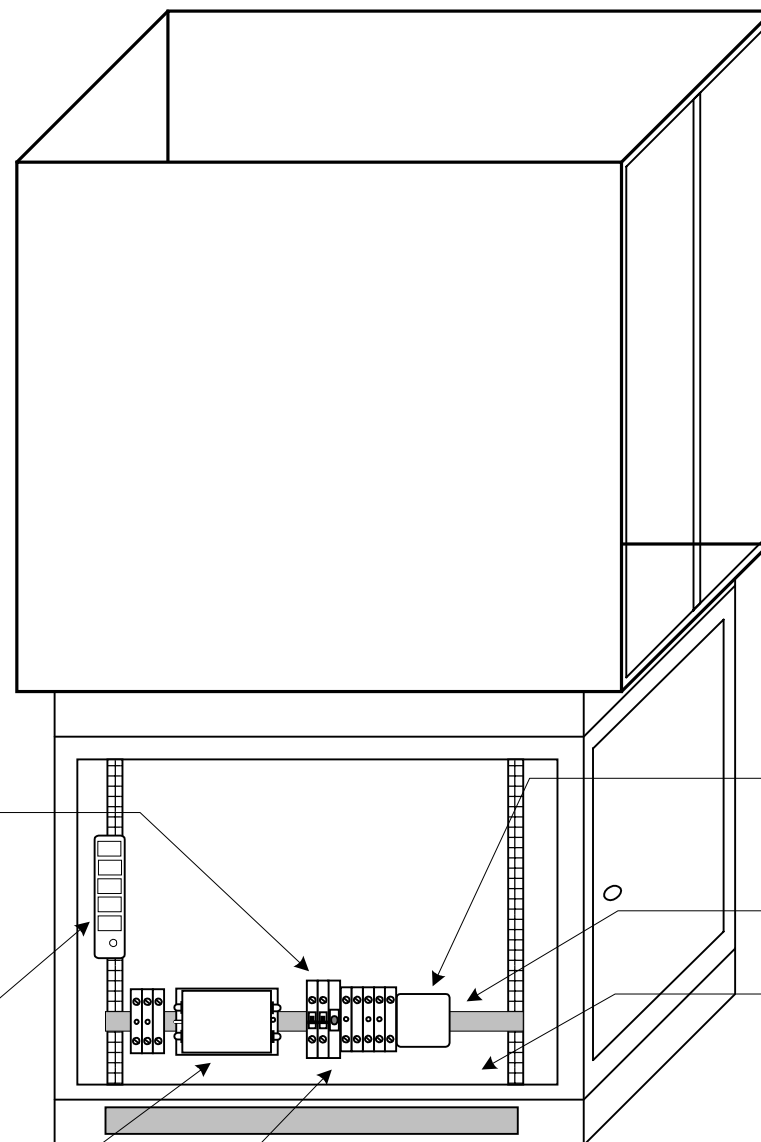
							<b>PC</b>	
					<b>230VAC Supply cable</b>			
					<b>EC-01-09-002-A</b>		<i>FILE:</i> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	<i>REV.</i> <b>A</b>
					<b>APPROVED BY:</b>		<b>DATE:</b> 03/01/2002	<b>SHEET 1 of 2</b>
<i>A. No.</i>					<i>DRAWN BY:</i> <b>R. S.</b>			
<i>Appr</i>								
<i>Date</i>								



					 <b>oxford diffraction</b>		<b>TITLE:</b>  <b>PC</b>  <b>230VAC Supply cable</b>						
					<i>DRG NO.</i>  <b>EC-01-09-002-A</b>								
					<i>A. No.</i>						<i>FILE:</i> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		<i>REV.</i> <b>A</b>
					<i>Appr</i>						<i>DRAWN BY:</i> <b>R. S.</b>		
<i>Date</i>						<i>APPROVED BY:</i>		<i>DATE:</i> 03/01/2001	<i>SHEET</i> <b>2 of 2</b>				



							<b>TITLE: Xcalibur System</b>	
					<b>DRG NO. OD-1-11-01</b>		<b>Cabinet illumination scheme</b>	
					<b>DRAWN BY: R. S.</b>		<b>FILE:</b> \\KUMA\workgroups\electronics\ xcalibur\install_doc\	<b>REV. B</b>
					<b>APPROVED BY:</b>		<b>DATE:</b> July 26, 1999	<b>SHEET 1 of 1</b>
<b>A. No.</b>	<b>B</b>							
<b>Appr</b>								
<b>Date</b>	11.2001							



← **FRONT**

**Mains switch**

**IEC plug inlet**

**Mains filter**


**Supply indicator**

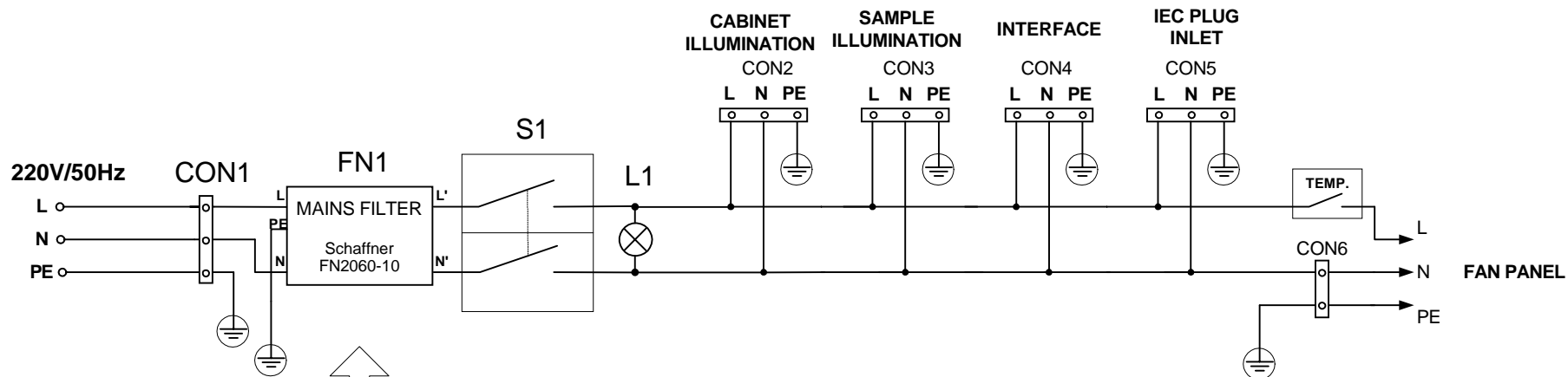
**Fan regulator**

**DIN rail**

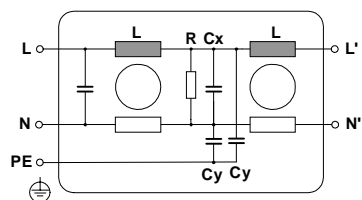
**PE rail**

A. No.	B							
Appr								
Date	10.01							

 <b>oxford diffraction</b>		<b>XCALIBUR SYSTEM</b>		
		TITLE <b>Power distribution</b>		
DRG. NO. <b>OD-1-14-01</b>		FILE \electronics\xcabibur\prj\zasilanie	DATE <b>03/2001</b>	REV. <b>B</b>
DRAWN BY: Radoslaw Smaga		SIZE	SCALE	SHEET 1 OF 3
APPROVED BY:				



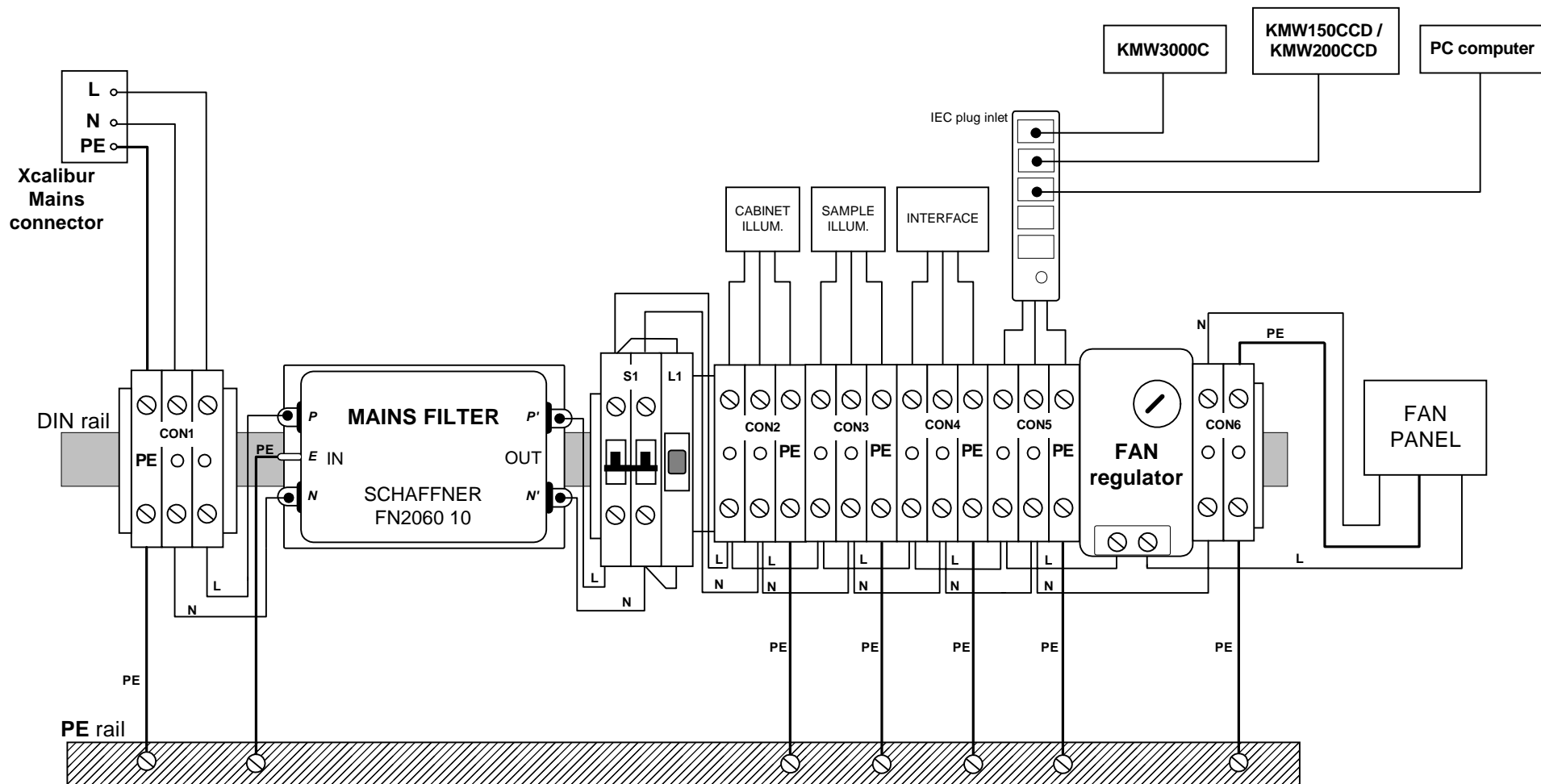
FN2060 - 10



$C_x = 470\text{nF}$   
 $C_y = 4,7\text{nF}$   
 $R = 0,47\text{M}\Omega$   
 $L = 0,8\text{mH}$

	XCALIBUR SYSTEM		
	TITLE		
	Power distribution		
	FILE	DATE	REV.
DRG. NO.	03/2001		
OD-1-14-02	B		
DRAWN BY:	Radoslaw Smaga		
APPROVED BY:			
SIZE	SCALE	SHEET 2 OF 3	

A. No.	B							
Appr								
Date	10.01							



S1 - S302B 10A prod. FAEL

L1 - L311 prod. FAEL

CON1 ... CON6 :

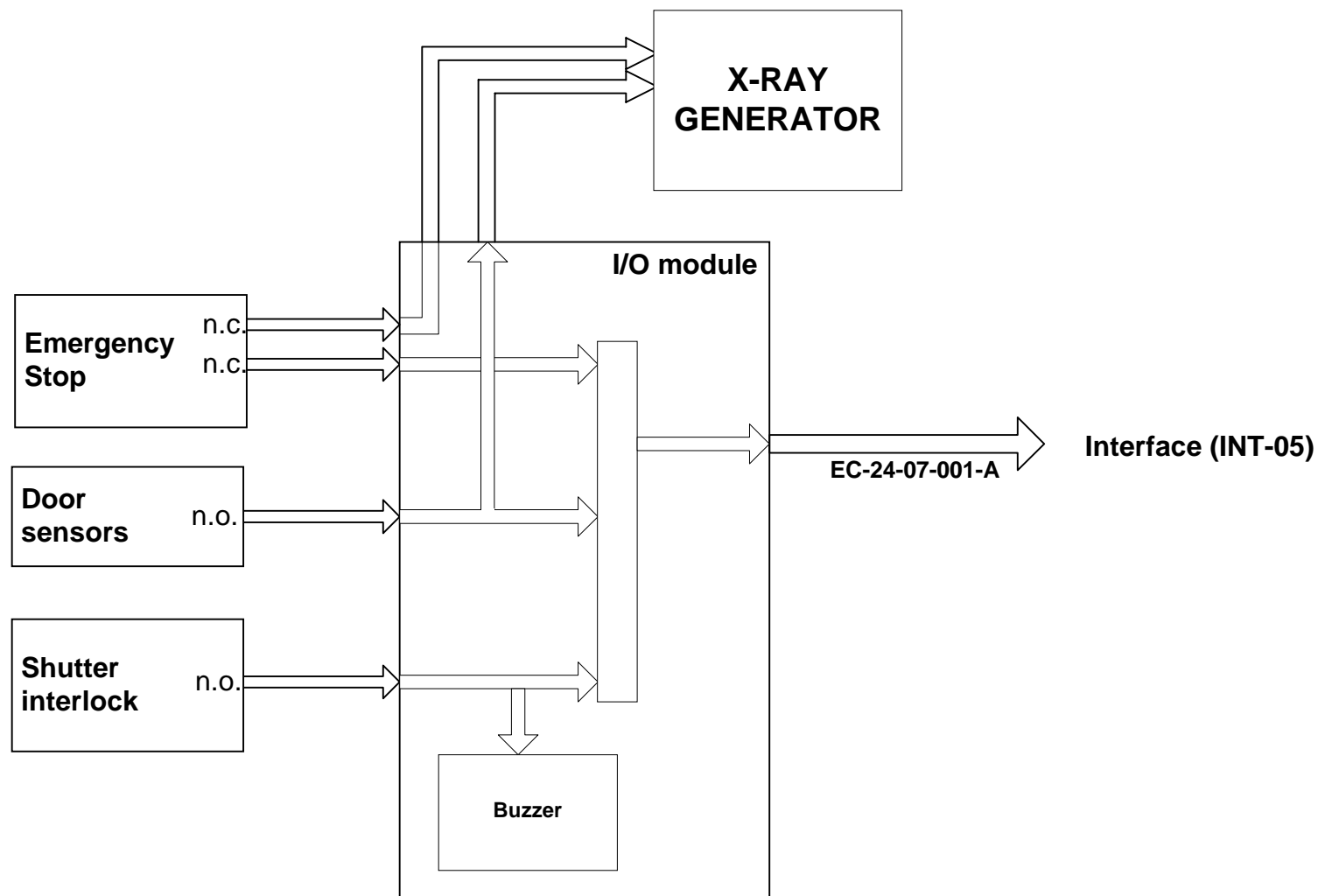
L : ZUG-G10 660VCuT55 (Red)


N : ZUG-G10 660VCuT55 (Blue)

PE: ZUG-G10 660VCuT55 (Yellow)

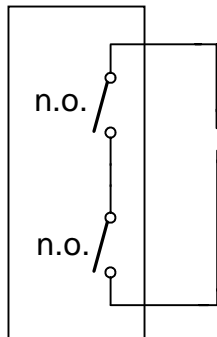
A. No.	B	C						
Appr								
Date	10.01	11.01						

		XCALIBUR SYSTEM	
		Power distribution	
DRG. NO. <b>OD-1-14-03</b>		FILE \\electronics\calibur\prj\zasilanie	DATE 03/2001
DRAWN BY: Radoslaw Smaga		REV. <b>C</b>	
APPROVED BY:		SIZE	SCALE
		SHEET 3 OF 3	

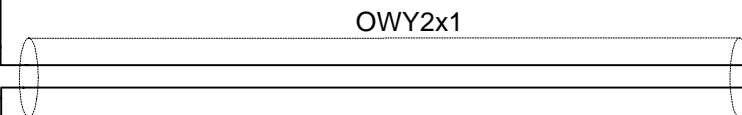


					<div> <b>oxford diffraction</b></div>	<div>TITLE:</div> <div><b>Xcalibur 2</b></div> <div><b>Safety system - block</b></div> <div><b>diagram</b></div>		
					<div>DRG NO.</div> <div><b>OD-1-09-11</b></div>			
<div>A. No.</div>					<div>DRAWN BY:</div> <div><b>R. S.</b></div>			
<div>Appr</div>					<div>APPROVED BY:</div>	<div>DATE:</div> <div>01.2002</div>	<div>SHEET</div> <div><b>1 of 1</b></div>	
<div>Date</div>								

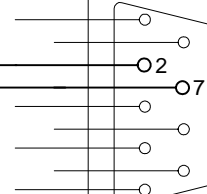
Door sensors



OWY2x1



DB9F



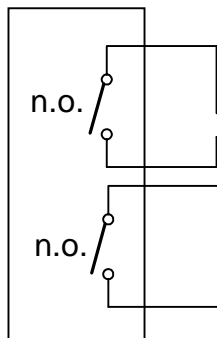
I/O module

DB9M

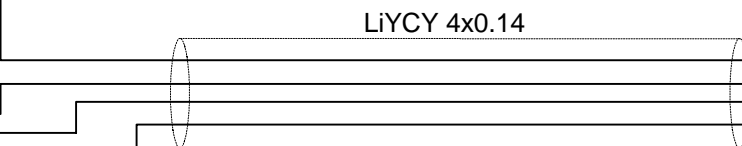
Sensors connector

CAB-03

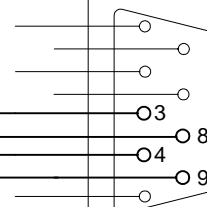
Shutter interlock



LiYCY 4x0.14



DB9F

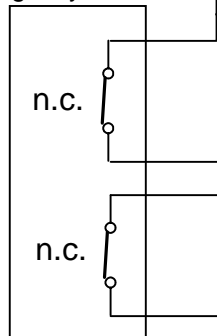


DB9M

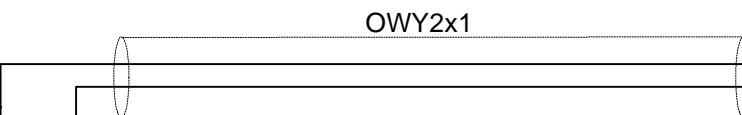
Shutter interlock connector

CAB-04

Emergency button

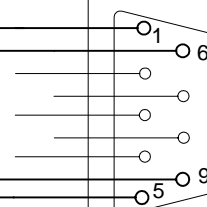


OWY2x1



1,1m

DB9M

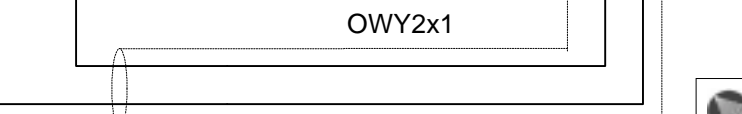


DB9F

Emergency button connector

CAB-02

OWY2x1



1,1m



DRG NO.

OD-1-09-11

DRAWN BY: R. S.

APPROVED BY:

TITLE:

**Xcalibur 2**  
**Safety connections**

FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\

REV. B

DATE: 01.2002

SHEET 1 of 1

A. No.

B

Appr

Date

06/2002

I/O module

CAB-01

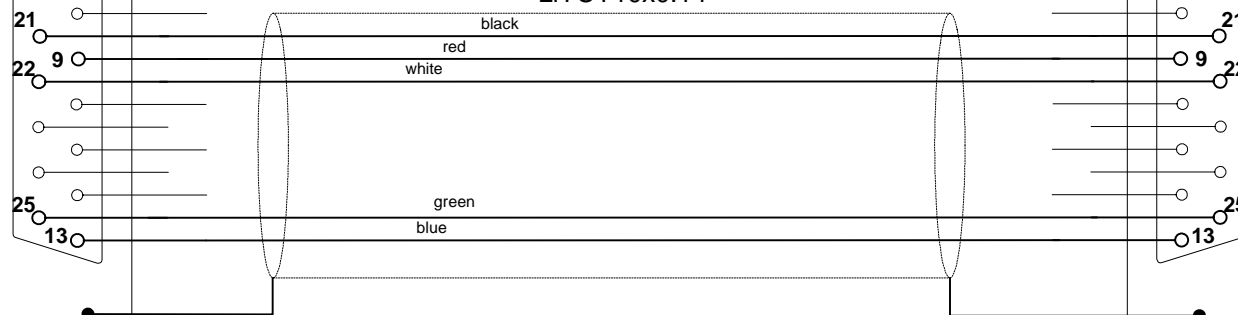
D25F


DB25M

DB25M

EC-24-07-001-A  
LiYCY10x0.14

INT-05  
INTERFACE



 <b>oxford diffraction</b>	TITLE: <b>Xcalibur 2</b>		
	<b>Safety connections</b>		
	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. <b>A</b>
	DATE: <b>01.2002</b>	SHEET <b>1 of 1</b>	

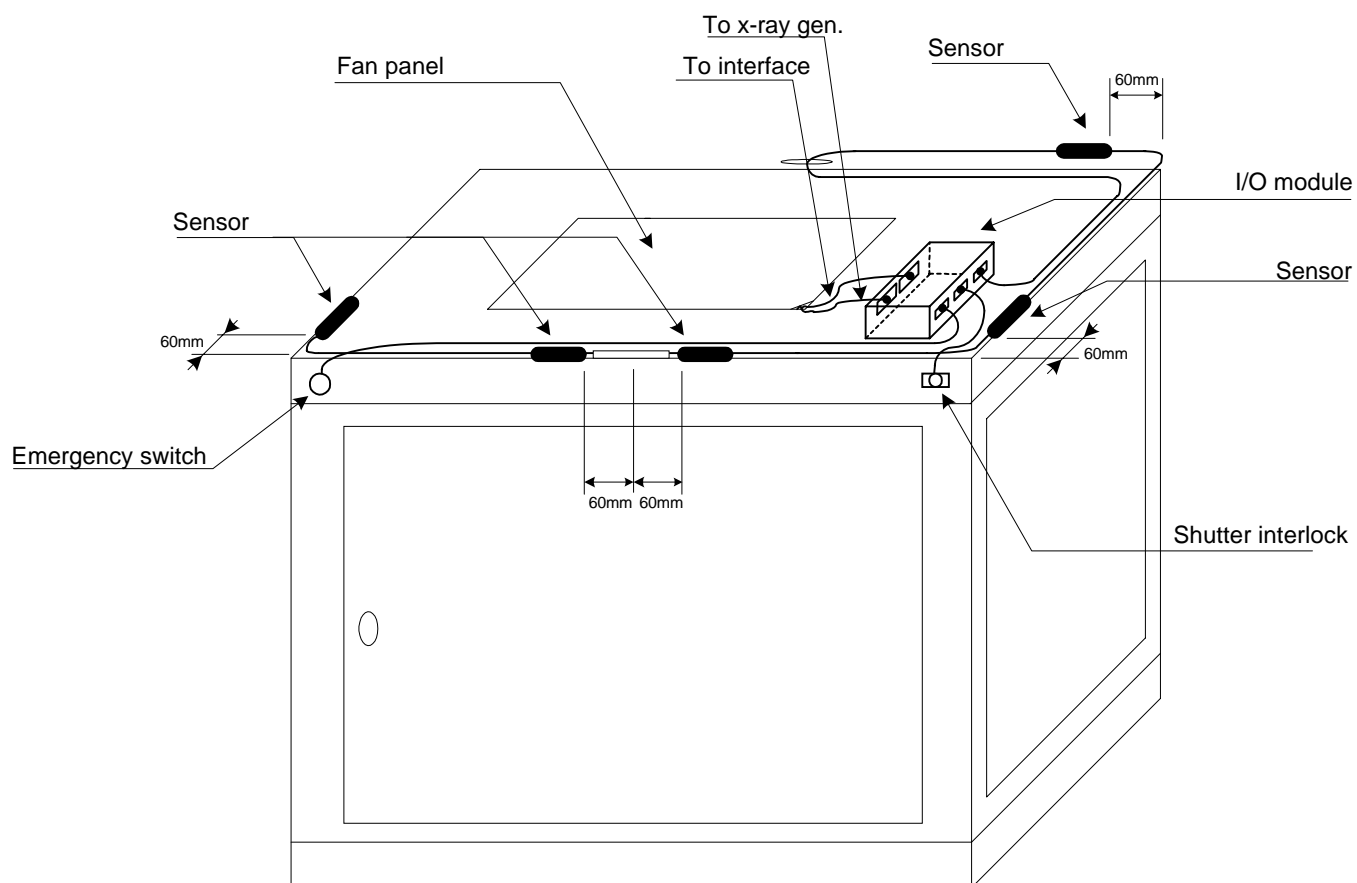
A. No.				
Appr				
Date				


DRG NO.

**EC-24-07-001-A**

DRAWN BY: **R. S.**

APPROVED BY:



 <b>oxford diffraction</b>	TITLE: <b>Xcalibur 2</b>		
	<b>Safety location</b>		
	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. <b>A</b>	
	DATE: <b>01.2002</b>	SHEET <b>1 of 1</b>	

DRG NO.

**OD-1-09-11**

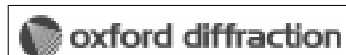
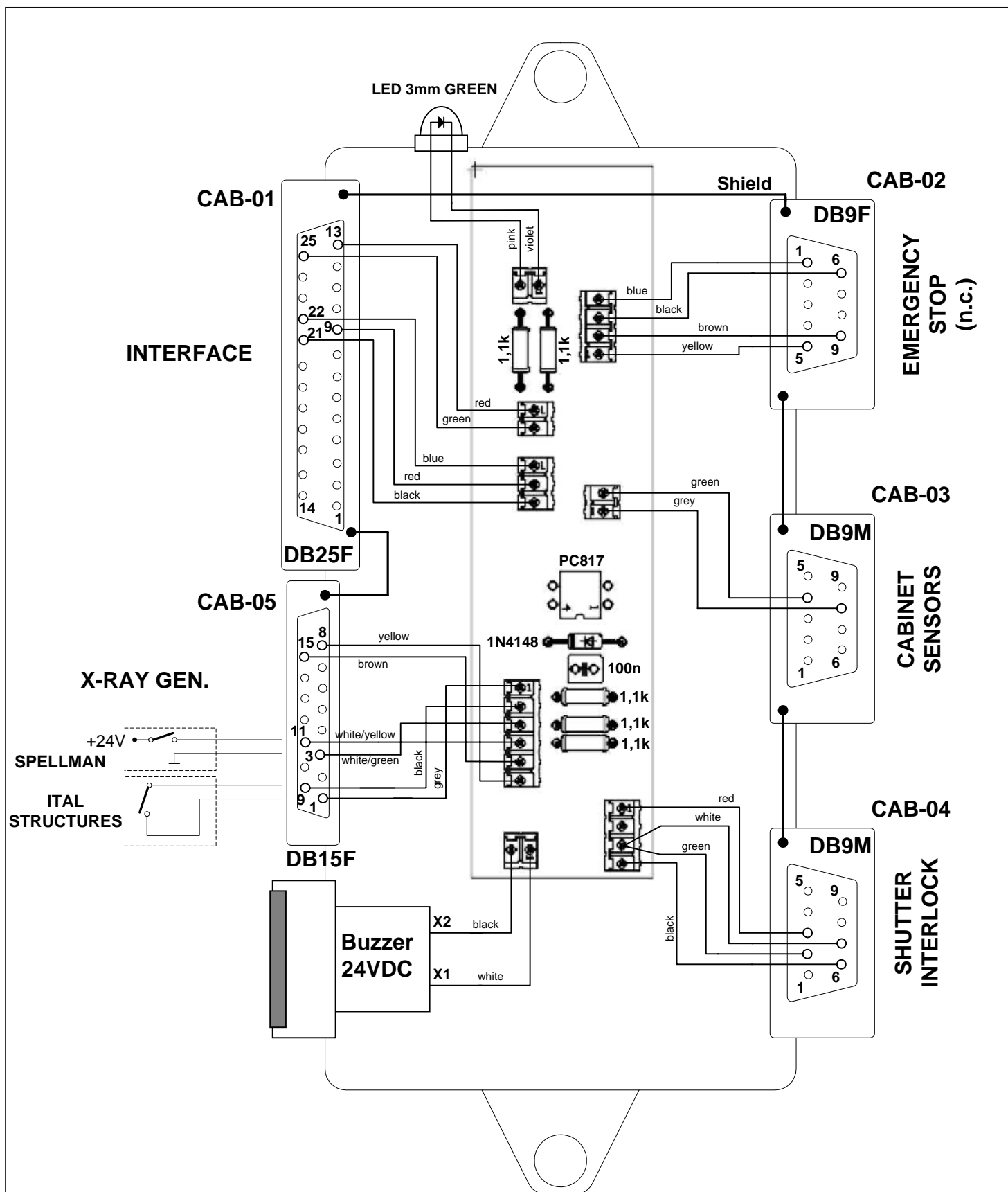
DRAWN BY: **R. S.**

APPROVED BY:

A. No.

Appr

Date



DRG NO.

**OD-1-09-12**

DRAWN BY: **R. S.**

APPROVED BY:

TITLE:

**Xcalibur 2**

**Safety module - connections**

FILE: \\KUMA\workgroups\electronics\gonio68332\cabinet

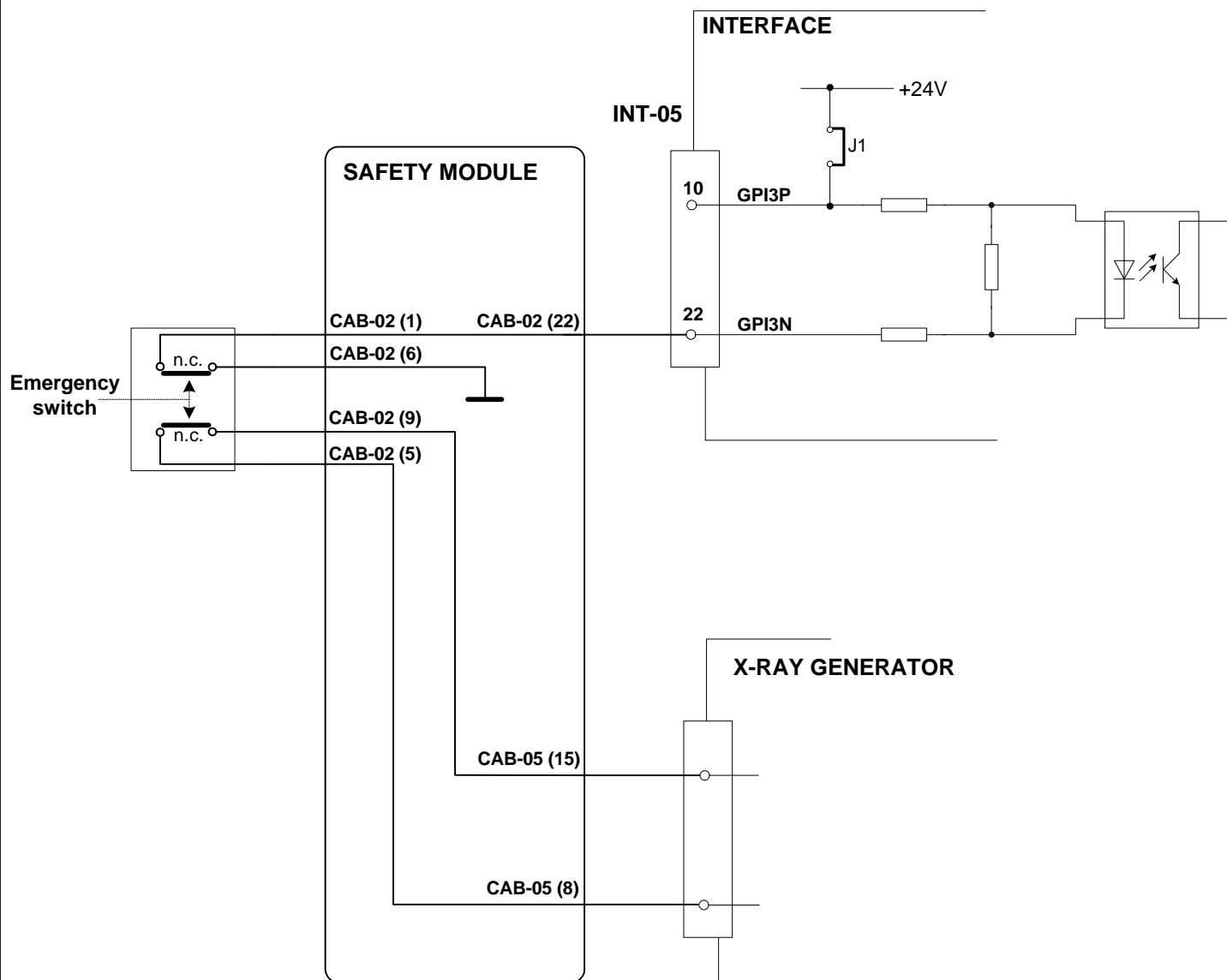
REV.

**B**

DATE: 24/01/2002

SHEET 1 of 3

A. No.	A	B
Appr		
Date	05/2002	06/2002



DRG NO.

**OD-1-09-12**

DRAWN BY: **R. S.**

APPROVED BY:

TITLE:

**Xcalibur 2**

**Safety module - connections**

FILE: \\KUMA\workgroups\electronics\gonio68332\cabinet

REV.

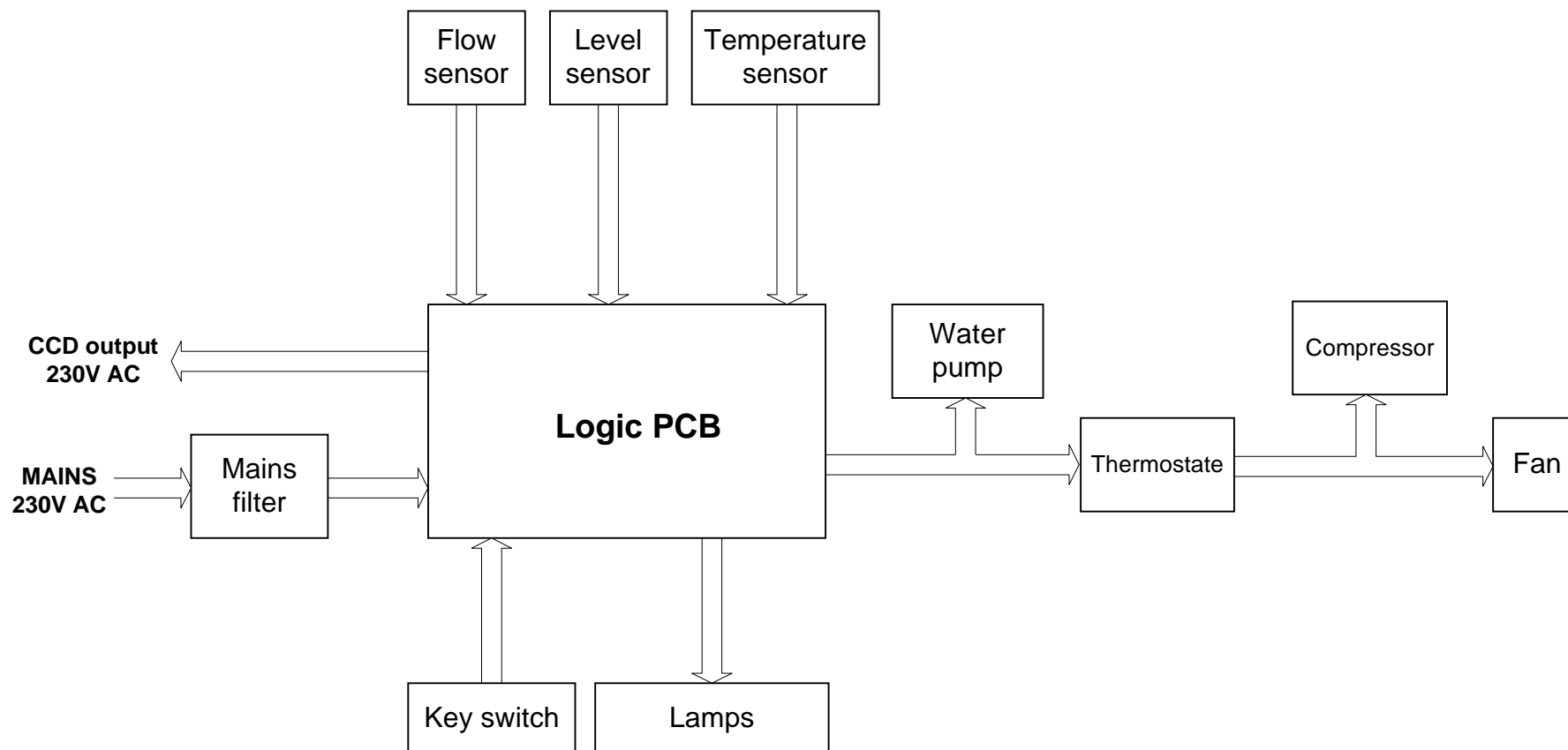
**B**


DATE: 24/01/2002

SHEET **2 of 3**

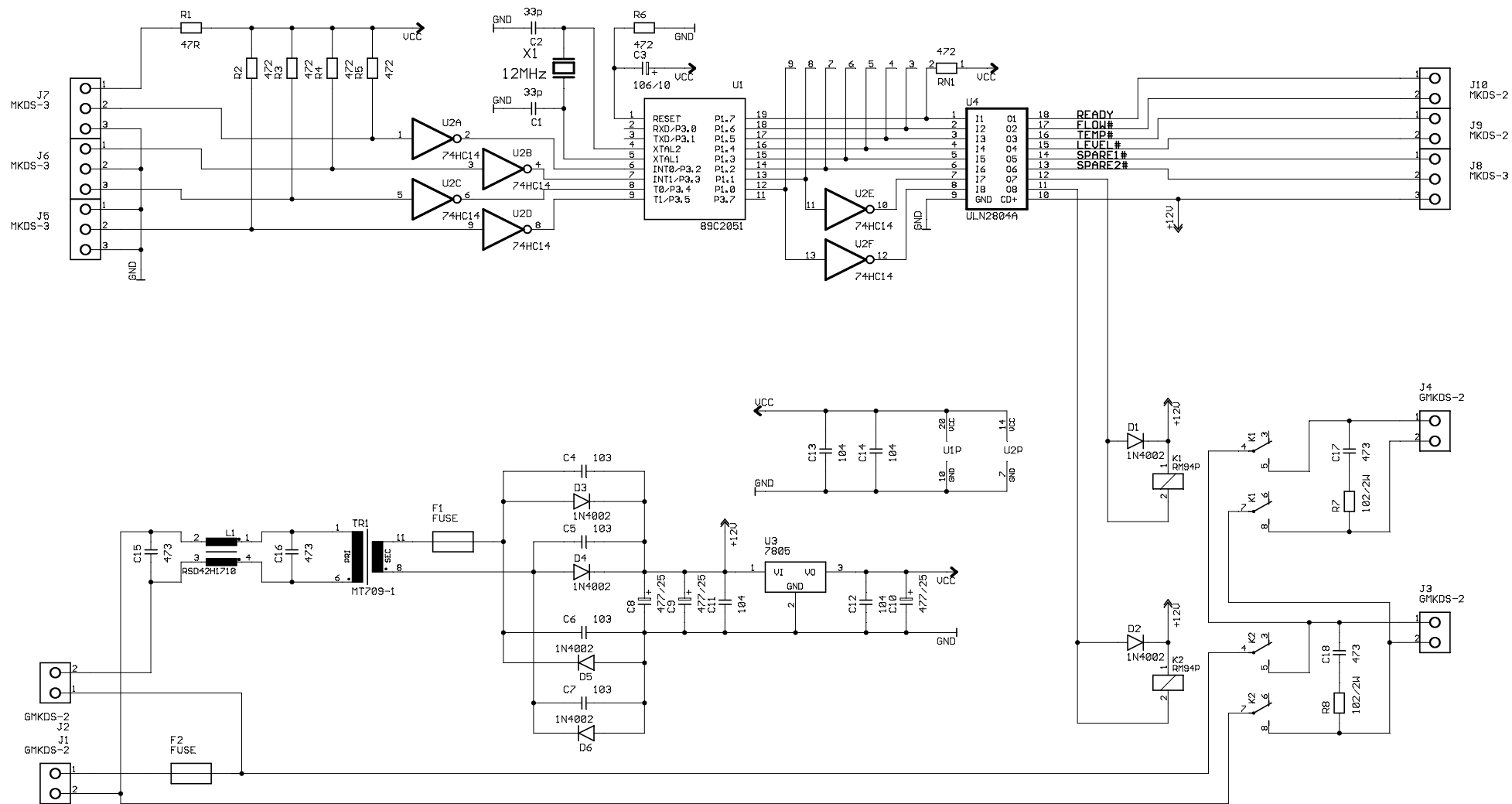
A. No.	A	B
Appr		
Date	<b>05/2002</b>	<b>06/2002</b>



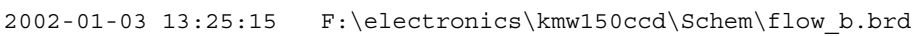


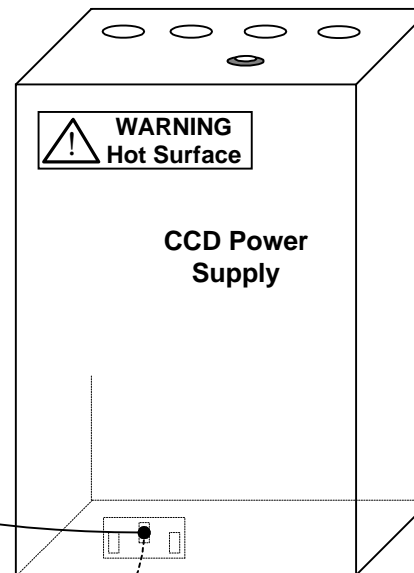
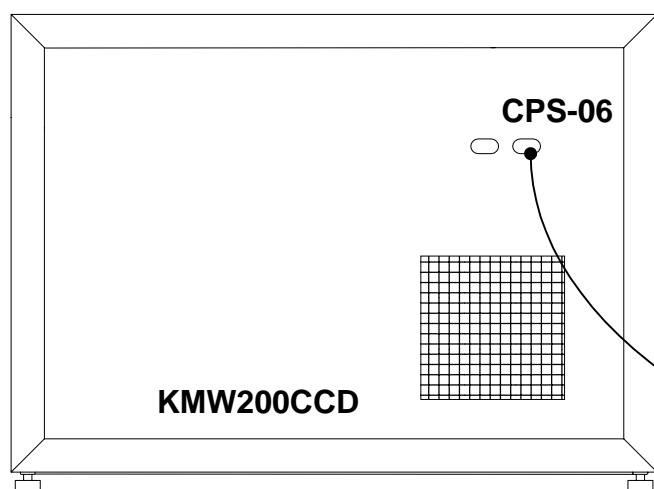
 <b>oxford diffraction</b> DRG NO. <b>EW-02-00-001-A</b> DRAWN BY: <b>R. S.</b> APPROVED BY:	TITLE: <b>KMW150CCD / KMW200CCD</b> <b>Electrical block scheme</b>		
	FILE: \\KUMA\workgroups\electronics\KMW150CCD\		REV. <b>A</b>
	DATE: 10.2002		SHEET <b>1 of 1</b>

A. No.				
Appr				
Date				

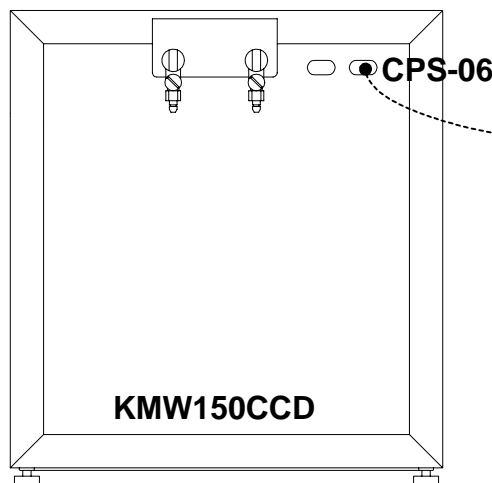


		ELFIN PL-WrocZaw
TITLE: flow_b		
Document Number:		REV: B
Date: 1999-08-08 19:37:50		Sheet: 1/1






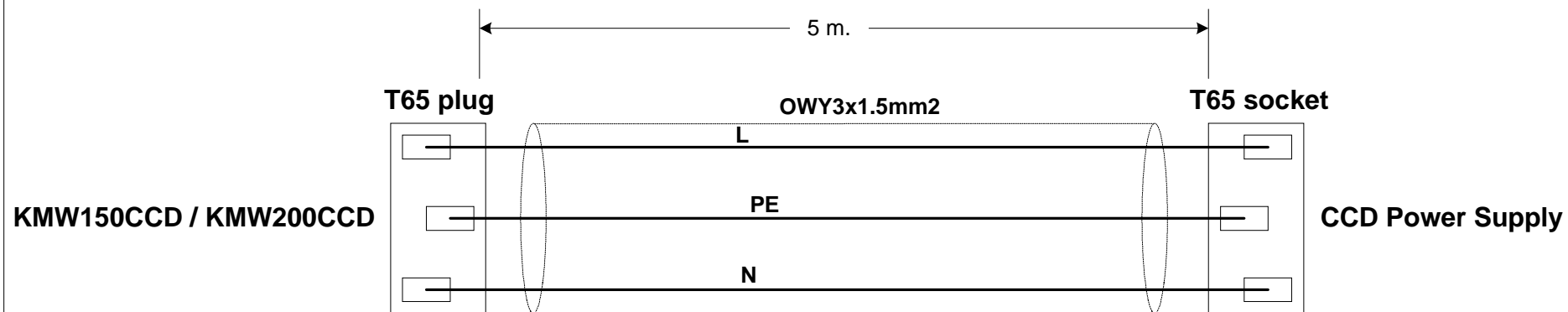
EC-01-02-001-A




KPNS code: <b>EC-01-02-001-A</b>		Length: <b>5.0m</b>	Drq no.: <b>EC-01-02-001-A</b>
Description: <b>CCD supply</b>			
Cable: <b>3 x 1.5mm<sup>2</sup>, white</b>		Connector 1: <b>CPS-06</b>	Connector 2: <b>CPS-05</b>
		PNS code: <b>EA-06-00-014-A</b>	PNS code: <b>EA-06-00-015-A</b>
PNS code: <b>EA-05-00-016-A</b>		Type: <b>T65 male</b>	Type: <b>T65 female</b>
Type: <b>OWY3x1.5mm<sup>2</sup></b>		Location: <b>KMW150CCD</b>	Location: <b>CCD p. s.</b>

 <b>oxford diffraction</b> DRG NO. <b>EC-01-02-001-A</b> DRAWN BY: <b>R. S.</b> APPROVED BY:	TITLE: <b>CCD Power Supply 230VAC Supply cable</b>		
	FILE:	\\KUMA\workgroups\electronics\gonio68332\cables	REV. <b>A</b>
	DATE:	03/01/2002	SHEET <b>1 of 2</b>

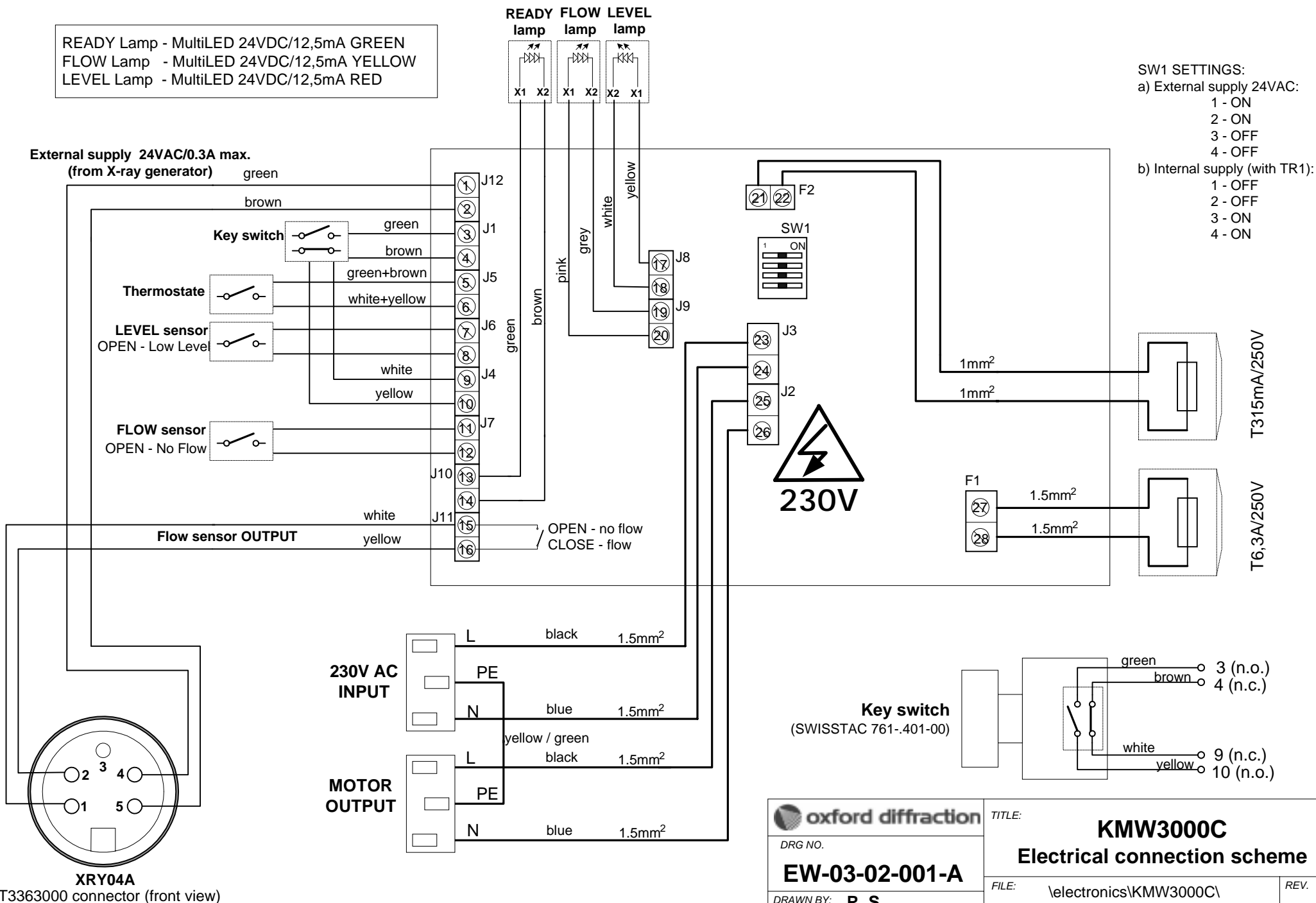
A. No.				
Appr				
Date				



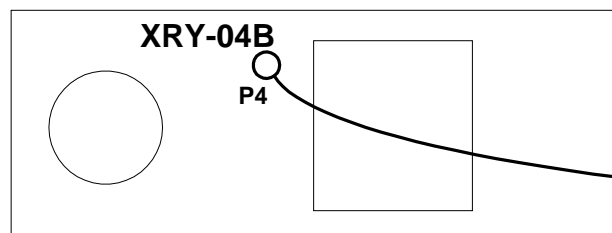
							<b>TITLE: CCD Power Supply</b>	
					<b>EC-01-02-001-A</b>		<b>230VAC Supply cable</b>	
					<b>DRAWN BY: R. S.</b>		<b>FILE:</b> \\KUMA\workgroups\electronics\gonio68332\cables	<b>REV. A</b>
<b>A. No.</b>					<b>APPROVED BY:</b>		<b>DATE:</b> 03/01/2001	<b>SHEET 2 of 2</b>
<b>Appr</b>								
<b>Date</b>								

READY Lamp - MultiLED 24VDC/12,5mA GREEN  
 FLOW Lamp - MultiLED 24VDC/12,5mA YELLOW  
 LEVEL Lamp - MultiLED 24VDC/12,5mA RED

External supply 24VAC/0.3A max.  
 (from X-ray generator)



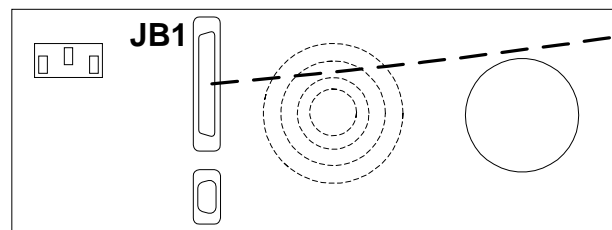
**ITAL STRUCTURES**  
C3K5 X-RAY GENERATOR



EC-24-06-001-A

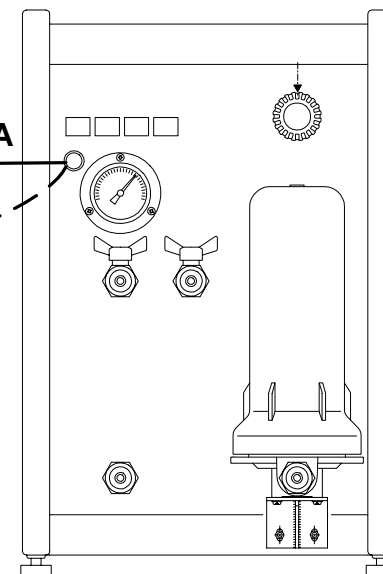
XRY-04A

**SPELLMAN**  
DF/FF X-RAY GENERATOR

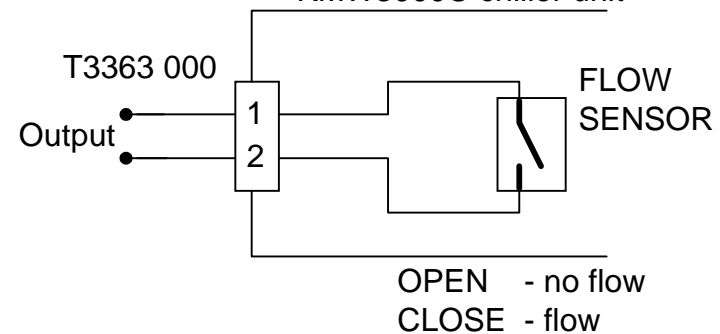



EC-24-06-001-B

**KMW3000C front view**

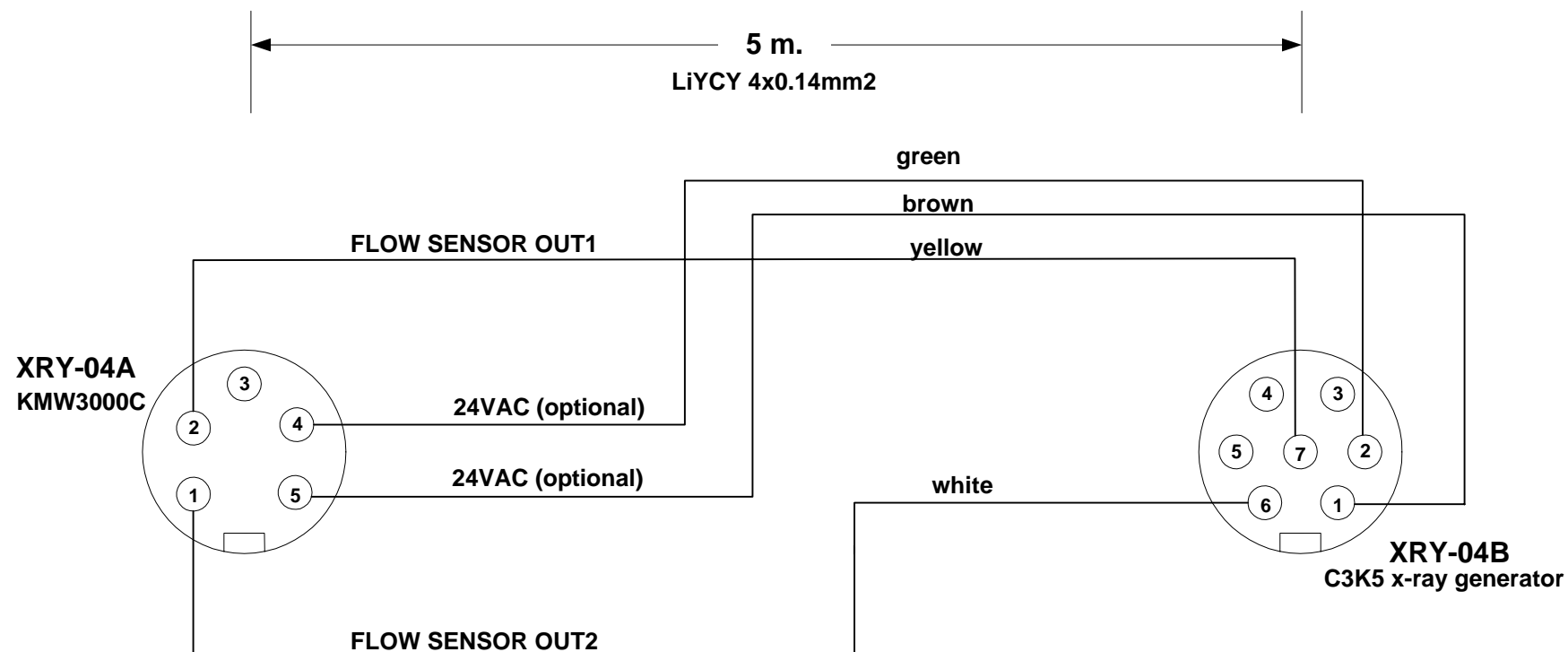


**KMW3000C chiller unit**




		<b>TITLE:</b> <b>KMW3000C</b>	
<b>DRG NO.</b> <b>EW-24-06-000-A</b>		<b>Flow sensor cable</b>	
<b>DRAWN BY:</b> <b>R. S.</b>		<b>FILE:</b> \\KUMA\workgroups\electronics\KMW3000C	<b>REV.</b> <b>A</b>
<b>APPROVED BY:</b>		<b>DATE:</b> 03/01/2002	<b>SHEET</b> 1 of 2

<b>A. No.</b>	A			
<b>Appr</b>				
<b>Date</b>	02/09/2002			



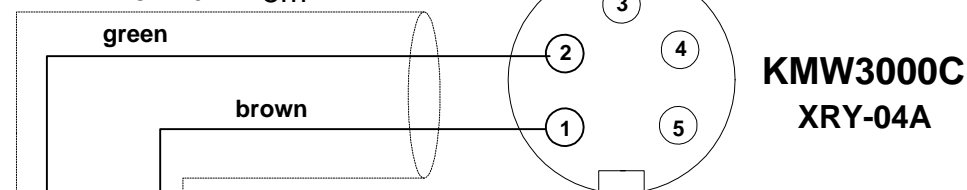
XRY-04A	Description
1, 2	Flow sensor output
3	no connected
4, 5	External supply 24VAC/0.3A max. from x-ray generator

						<b>TITLE:</b> KMW3000C Flow sensor cable for ITAL STRUCTURES x-ray generator	
				DRG NO. <b>EW-24-06-001-A</b>		<b>FILE:</b> \\KUMA\workgroups\electronics\ KMW3000C	
<b>A. No.</b> B				<b>DRAWN BY:</b> R. S.		<b>REV:</b> B	
<b>Date</b> 02/09/2002				<b>APPROVED BY:</b>		<b>DATE:</b> 03/01/2001	<b>SHEET</b> 2 of 2

XRY-04A	Description
1, 2 3, 4, 5	Flow sensor output no connected

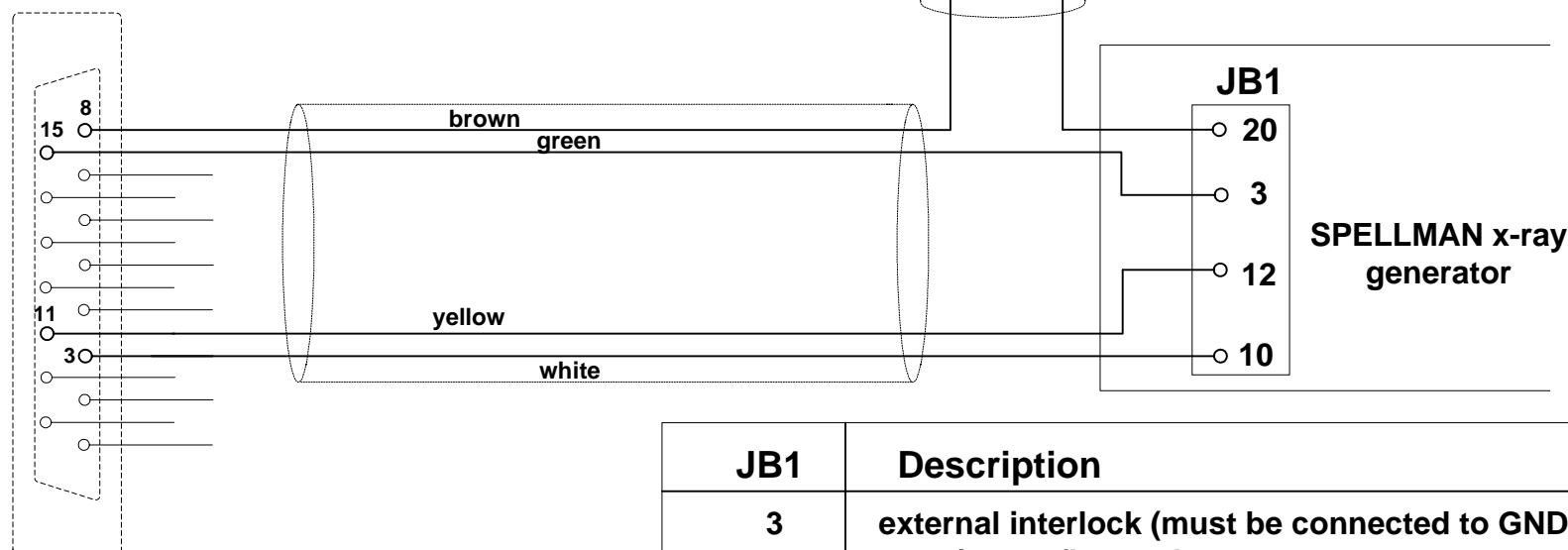
**EC-24-06-001-B**

LiYCY4x0.14 5m



**KMW3000C  
XRY-04A**

**CAB-05**



**SPELLMAN x-ray  
generator**

JB1	Description
3	external interlock (must be connected to GND for interlock closed)
10	+24V/10mA (is provided when the power on switch is energized)
12	X-ray ON output
20	GND



DRG NO.

**EW-24-06-001-B**

DRAWN BY: **R. S.**

APPROVED BY:

TITLE:

**KMW3000C  
Flow sensor cable for SPELLMAN  
x-ray generator**

FILE: \\KUMA\workgroups\electronics\  
KMW3000C

REV. **A**

DATE: 02/09/2002

SHEET **1 of 1**

A. No.

Appr

Date